

IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF MISSISSIPPI
OXFORD DIVISION

CIVIL ACTION NO. 3:17-cv-060 DMB-RP

KELLI DENISE GOODE, Individually,
and also as the Personal
Representative of Troy Charlton
Goode, Deceased, and as Mother,
Natural Guardian, and Next Friend
of R.G., a Minor, and also on
behalf of all similarly situated
persons,

Plaintiff,

vs.

THE CITY OF SOUTHAVEN, TODD BAGGETT,
Individually, JEREMY BOND, Individually,
TYLER PRICE, Individually, JOEL RICH,
Individually, JASON SCALLORN,
Individually, STACIE J. GRAHAM a/k/a
WITTE, Individually, MIKE MUELLER,
Individually, WILLIAM PAINTER, JR.,
Individually, BRUCE K. SEBRING,
Individually, JOSEPH SPENCE,
Individually, RICHARD A. WEATHERFORD,
Individually, JOHN DOES 1-10,
BAPTIST MEMORIAL HOSPITAL - DESOTO,
a Mississippi Corporation,
SOUTHEASTERN EMERGENCY, INC., a
Tennessee Corporation, and LEMUEL
DONJA OLIVER, M.D.,

Defendants.

DEPOSITION OF MICHAEL F. ARNALL, MD

1 BE IT REMEMBERED that on, to wit, the 19th day of
2 October, 2017, this matter came on for the taking of the
3 deposition of **MICHAEL F. ARNALL, MD,** before Sherry L. Rowe,
4 Certified Shorthand Reporter, a Registered Merit Reporter,
5 Registered Professional Reporter, and Notary Public of ANIMAS
6 REPORTING SERVICE, 919 County Road 142, Durango, Colorado
7 81301, taken at the DoubleTree by Hilton, San Juan Conference
8 Room, 501 Camino del Rio, Durango, Colorado 81301, at the hour
9 of 8:52 a.m.

10

11 A P P E A R A N C E S

12

13 FOR THE PLAINTIFF:

14

Mr. Tim Edwards
BALLIN, BALLIN & FISHMAN, PC
200 Jefferson Avenue, Ste. 1250
Memphis, Tennessee 38103
Phone: 901.525.6278
Email: tedwards@bbfpc.com

16

17

18

19 FOR THE DEFENDANTS CITY OF SOUTHAVEN, TODD BAGGETT, JEREMY
20 BOND, TYLER PRICE, JOEL RICH, JASON SCALLORN, STACIE GRAHAM,
MIKE MUELLER, WILLIAM PAINTER, JR., BRUCE SEBRING, and RICHARD
WEATHERFORD:

21

Mr. L. Bradley Dillard (By Phone)
MITCHELL, McNUTT & SAMS, PA
105 South Front Street
Tupelo, Mississippi 38804
Phone: 662.842.3871
Email: bdillard@mitchellmcnutt.com
kdoty@mitchellmcnutt.com

24

25

1 FOR THE DEFENDANT BAPTIST MEMORIAL HOSPITAL-DESOTO, INC.:

2 Mr. John Mark McIntosh (By Phone)
3 UPCHURCH & UPCHURCH, PA
4 141 S. Commerce Street, Ste. B
5 Tupelo, Mississippi 38804
6 Phone: 662.260.6953
7 Email: mmcintosh@upchurchpa.com

8 FOR THE DEFENDANT SOUTHEASTERN EMERGENCY PHYSICIANS, INC.:

9 Mr. Matthew R. Macaw (By Phone)
10 McDONALD KUHN, PLLC
11 5400 Poplar Avenue, Ste. 330
12 Memphis, Tennessee 38119
13 Phone: 901.526.0606
14 Email: mmacaw@mckuhn.com

15 FOR THE DEFENDANT LEMUEL DONJA OLIVER, MD:

16 Mr. Marty R. Phillips
17 RAINEY, KIZER, REVIERE & BELL, PLC
18 50 North Front Street, Ste. 610
19 Memphis, Tennessee 38103
20 Phone: 731.423.2414
21 Email: mphilipps@raineykizer.com

22 Mr. James R. Gass
23 GASS WEBER MULLINS, LLC
24 241 North Broadway, Ste. 300 ???
25 Milwaukee, Wisconsin 53202
Phone: 414.224.7697
Email: gass@gwmlaw.com

1 I N D E X

2		Page
3	Appearances	2
4	Witness - MICHAEL F. ARNALL, MD	
5	Examination by Mr. Phillips	7
6	Examination by Mr. Dillard	143
7	Examination by Mr. McIntosh	155
8	Examination by Mr. Edwards	166
9	Witness' Signature/Correction Pages	177/178
10	Reporter's Certificate	179

11

12

13

14 E X H I B I T S

15		FORMALLY MARKED/ IDENTIFIED
16	<u>EXHIBIT</u>	<u>PAGE</u>

17

18 1 Copy of Color Photographs of Glass Slides,
CHW 15-275 15

19 2 Parkes and Carson, "Sudden death during
20 restraint: do some positions affect lung
function?" 65

21 3 Letters, BMJ Volume 316, 11 April 1998,
22 Pages 1164 - 1171 69

23 4 corrections.com, "Reducing the Risk
Associated with Use of Restraints,"
24 Meghan Fay, 7/27/2000 72

25

E X H I B I T S

(Cont.)

1			
2			
3			
4	5	Handbook of Forensic Pathology, Second Edition, DiMaio and Dana, Pages 168 - 169	79
5			
6	6	Forensic Pathology: Principles and Practice, 2005, David Doinak, Page 309	83
7			
8	7	Medicolegal Investigation of Death, 4th Edition, Spitz and Fisher, Page 832	85
9			
10	8	Excited Delirium Syndrome, DiMaio-DiMaio, Page 126	90
11			
12	9	Karch's Pathology of Drug Abuse, Third Edition, Page 309	95
13			
14	10	(Late exhibit) NIH, Page 5	105
15			
16	11	Journal of Forensic and Legal Medicine, 19 (2012) 7-11, "Excited delirium syndrome (ExDS): Redefining an old diagnosis," G.M. Vilke, et al.	108
17			
18	12	The Journal of Emergency Medicine, Vol. 43, No. 5, pp 897-905, 2012, Clinical Reviews, "Excited Delirium Syndrome (EXDS): Defining Based On a Review Of The Literature," G.M. Vilke, et al.	109
19			
20	13	Notice of Deposition	116
21			
22	14	Dr. Arnall's Notebook of Documents	118
23			
24	15	Pharmacological Basis of Therapeutics, Goodman & Gilman, Page 311	125
25			
	16	Harrison's Principles of Internal Medicine, 11th Edition, Page 2,117	125
	17	Drug Safety Information for Healthcare Professionals, Haloperidol (Haldol)	168

E X H I B I T S

(Cont.)

- | | | |
|----|---|-----|
| 18 | "Cardiorespiratory consequences to
hobble restraint," M. Roeggla, et al.,
1997 | 176 |
| 19 | American Journal of Emergency Medicine,
2001, "Factors Associated With Sudden
Death of Individuals Requiring
Restraint for Excited Delirium," Samuel
J. Stratton, MD, MPH, et al. | 176 |

1 **MICHAEL F. ARNALL, MD,**
2 was called as a witness by the Defendant Oliver, and having
3 been first duly sworn, testified upon his oath as follows, to
4 wit:

5 EXAMINATION

6 BY MR. PHILLIPS:

7 Q State your name, please.

8 A Michael Frank Arnall, A-R-N-A-L-L.

9 Q Dr. Arnall, I'm Marty Phillips. We met a short time
10 ago. And I am one of the attorneys, along with Mr. Gass, who's
11 here today, representing Dr. Oliver, one of the Defendants in
12 this case.

13 You understand that you have been disclosed by the
14 Plaintiff as an expert witness who may testify in this case,
15 right?

16 A Yes.

17 Q And you understand that that's the purpose for which
18 we're here to take your deposition today?

19 A Yes.

20 Q I was advised by Mr. Edwards' paralegal this week
21 that you required a thousand-dollar payment for the deposition;
22 is that right?

23 A Yes.

24 Q Here's a thousand-dollar check from my firm to you.

25 A Thank you.

1 Q Your area of specialty is what?

2 A Forensic pathology. I'm board-certified in anatomic
3 pathology, clinical pathology, and forensic pathology.

4 Q Is that the only area of expertise that you hold?

5 A In previous court appearances, I've been qualified to
6 express an opinion as a licensed physician in the practice of
7 medicine.

8 So, in -- in -- in response, while I'm
9 board-certified in those three specialty areas, obviously I'm a
10 licensed physician. I've been a laboratory director at several
11 different facilities. So I've testified in those areas of
12 medicine that a laboratory director would be consulted by other
13 physicians. And that, you know, from time to time includes
14 laboratory testing and endocrinology or hematology.

15 I did a separate forensic -- separate fellowship in
16 surgical pathology, which is that specialty which attends to
17 the issue of everything you'd receive from the operating room,
18 but in particular morphologic appearance of cancers and
19 infectious diseases.

20 But predominantly in forensic pathology and all the
21 areas of training in forensic pathology. Obviously, there's
22 training in toxicology, because that's one of our fundamental
23 aspects; training in trauma that humans receive, you know, as a
24 cause of their death. So there's multiple disciplines.

25 As a forensic pathologist, we determine cause and

1 manner of the death. And the cause of death could be
2 essentially anything you see in an index of a -- of a medical
3 textbook.

4 Q When is the last time you provided care to a living
5 patient?

6 A 2004 and prior to that. In 2005, I went to
7 essentially all forensic pathology.

8 (Short interruption in deposition, hotel
9 staff person entering, short discussion.)

10 Q (BY MR. PHILLIPS) When is the last time you have
11 worked as an emergency room physician?

12 A I've never worked as an emergency room physician. I
13 might make one comment with respect to the previous question.
14 On occasion, I'm consulted by district attorneys here in
15 Colorado to evaluate patients who received injuries but who are
16 not dead yet.

17 So, strictly speaking, that's not treating the
18 patient. But, you know, in an abundance of caution, I will
19 disclose that, yes, I have seen patients who aren't dead. And
20 that's because prosecuting attorneys have asked me to evaluate
21 injuries in patients who did not receive lethal injuries.

22 Q You are not going to be offering opinions on the
23 standard of care required of an emergency room physician, are
24 you?

25 A I -- in candor, I seriously doubt that Plaintiff's

1 attorney will ask me, and I seriously doubt a judge would allow
2 me to express an opinion.

3 On the other hand, I do have textbooks which address
4 some of the -- those issues which you've just stated. I'm well
5 aware that I neither practiced as an emergency room physician
6 nor trained as, other than being in an emergency room as a --
7 as a -- in training. And so I seriously doubt my opinion would
8 be accepted by a court or even allowed to be expressed.

9 Although, I would say that, in evaluating this case,
10 I have read the opinions expressed about the standard of care.
11 Much of it I'm aware of, just because I've spent, you know,
12 decades in medicine.

13 Some of the issues I have looked up in -- in texts
14 because they -- they sounded to be divergent from what I had
15 experienced.

16 And part of that is -- is -- goes under the rubric of
17 evaluating the credibility of other medical opinions, which I
18 inevitably read regarding this case. Although, candidly, I
19 seriously doubt a judge will allow me to express an opinion. I
20 did evaluate the opinion of other physicians. I just seriously
21 doubt anyone is going to allow me to express an opinion in a
22 court of law. But have I looked at it? Have I evaluated it?
23 Yes, I have.

24 Q Well, that really wasn't my question, whether you've
25 looked at it.

1 My question is: You're not going to try to offer
2 opinions on what the standard of care requires of an emergency
3 room physician in this case, are you?

4 A Oh. That is not in my report, and I will not be
5 issuing that opinion in --

6 Q Okay.

7 A -- in the courtroom. However, I understand it may
8 well come up in this deposition. I just suspect it won't be
9 allowed in -- in open court. And it's certainly not -- as you
10 know, it's not in my report.

11 Q It's not in your report, and it's not an area of
12 medicine in which you have experience practicing, and it's not
13 an area in which you hold yourself out as an expert, correct?

14 A I will not hold myself out as an expert to the court;
15 that is correct. But I suspect we're going to be discussing it
16 today.

17 Q Okay. Did you tell me that you'd never worked as an
18 emergency room physician?

19 A I never worked as an emergency room physician.
20 Although, as you might surmise, as a laboratory director, I'm
21 called from time to time, prior to my -- prior to 2005, to
22 either see laboratory results of -- of patients in the
23 emergency room or from time to time actually look at a patient
24 in an emergency room by an emergency room physician.

25 But I myself am not board-certified, have no

1 internship or residency in emergency room training, do not hold
2 myself out to be an expert.

3 Q Okay. Thank you. Are you aware that there is
4 another forensic pathology expert the Plaintiff has identified
5 in this case, Dr. Cyril Wecht?

6 A I am. I've read his report, and I brought his report
7 in the package of hard copies that I have received. And I have
8 it.

9 Q Did you read his Autopsy Report or just his Rule 26
10 report in this case?

11 A Under Plaintiff's Tab 10 of the package I received, I
12 have a December 5, 2016, letter from Cyril Wecht to
13 Dr. Edwards (sic), that has a "Clinical Summary," a
14 "Post-Mortem Examination," and an "Opinion." It has toxicology
15 results.

16 And I also brought with me today a package of glass
17 slides that I received, and they are labeled CHW, which I
18 interpret as Cyril H. Wecht. 15-275 with the name T. Goode.
19 And I'm going to hand those over to you for your inspection.

20 Q Did you review Dr. Wecht's deposition?

21 A I don't recall reviewing his deposition.

22 Q Have you been provided with any of the exhibits that
23 were marked in his deposition?

24 A Other than what I've told you so far, I don't recall
25 that I have.

1 Q Do you have any disagreements with Dr. Wecht's
2 opinion as expressed in the letter to Mr. Edwards that he
3 wrote, that you just referenced?

4 A I don't disagree with anything that he has stated.
5 If you were to compare and contrast my report with his, you
6 would see that I had added the issue of the Ativan and Haldol
7 in my evaluation of substances which exacerbated the problems
8 of the decedent. I don't know if you call that a disagreement,
9 but you're gonna see that they're not the same.

10 Q Dr. Wecht did not at all implicate Haldol or Ativan
11 as a cause of Mr. Goode's death, right?

12 A That -- and that is why I have specifically
13 highlighted that difference between our reports.

14 Q So do you discern that there's disagreement between
15 the two of you on the issue of the involvement of Haldol and
16 Ativan?

17 A I suppose that's a matter of semantics. That I know
18 of, he hasn't specifically disputed it. So I don't know that
19 there is a discrepancy. But I clearly have disclosed to you
20 that our opinions are not identical, inasmuch as I have
21 implicated those two substances, and he has not. And that's
22 fair to say.

23 Q Do you think a reasonable forensic pathologist could
24 evaluate this case and conclude that Haldol and Ativan played
25 no role in Mr. Goode's death?

1 A I do not. I believe that a reasonable forensic
2 pathologist would have to agree that Ativan, in particular,
3 could reasonably have contributed to the death of this
4 individual.

5 Q Can reasonable forensic pathologists disagree on the
6 cause of a particular person's death?

7 A Yes.

8 Q Did you know that Dr. Wecht had been deposed in this
9 case?

10 A I don't recall if I knew that he had a deposition. I
11 knew that he had a report.

12 Q Did you know that he had an Autopsy Report that he
13 did outside of the Rule 26 Report provided to Mr. Edwards in
14 this case?

15 A I don't recall that specifically, no. This is what I
16 have. And I didn't inquire any further, I don't believe.

17 Q The slides that you have, the glass slides, are all
18 prepared by Dr. Wecht?

19 A I believe they all carry his initials.

20 Q The "CHW" designation that you mentioned earlier?

21 A That is correct.

22 Q Have you reviewed any glass slides prepared by
23 anybody else?

24 A I have not.

25 Q Do you know if there are any others available?

1 A I know that the Barnhart autopsy indicates there's a
2 microscopic exam. So I essentially know that such glass slides
3 do exist. I have not seen them.

4 Q You have not evaluated the Barnhart glass slides; is
5 that correct?

6 A That is correct.

7 Q For purposes of identifying the slides that you had
8 reviewed on the record, can we sometime after today make a
9 photocopy of those slides and attach that paper copy as an
10 exhibit? Would that be a reasonable way to identify the
11 slides?

12 A Yes, it is. It is a traditional way to identify
13 them.

14 Q Let's make the photocopy of the glass slides you
15 reviewed Exhibit 1 to your deposition.

16 A And I suspect we can do that at this facility today.

17 Q Okay. Whatever we need to do to accommodate that, we
18 will.

19 A I suspect their business office has the ability to do
20 that.

21 MR. GASS: Could I see the box of slides,
22 please?

23 THE WITNESS: (Complying.) It's possible you
24 could take a picture of them with a smartphone.

25 Q (BY MR. PHILLIPS) You actually reviewed the slides,

1 a photo of which we've marked as Exhibit 1?

2 A Yes.

3 Q Was there anything that you could discern on the
4 slides that led you to reach a conclusion as to cause of death
5 in this case?

6 A In the sense that sometimes what one does not see can
7 be as important as what one does see. I will tell you that I
8 specifically looked for microscopic morphological criteria for
9 asthma, insomuch as this patient does have a history of asthma.
10 There are five particular findings that a forensic
11 pathologist would look at under the microscope for -- with the
12 intent of determining whether asthma contributed significantly
13 to death.

14 Those include eosinophils, mucous plugging of
15 airways, smooth muscle hyperplasia around the bronchi, that
16 sometimes gives a festooned or serpiginous appearance to the
17 mucosa, hyperplasia of mucous glands and wide-mouthed mucous
18 glands. I saw none of those findings in these slides.

19 So I did have a specific intent, when I looked at
20 these slides, and that was to evaluate the possibility of a
21 significant contribution of asthma. And while asthma may have
22 contributed, I saw none of the compelling findings that I've
23 just outlined that one frequently sees in asthma deaths.

24 Q So, from the perspective of a forensic pathologist,
25 you saw no evidence on the glass slides of asthma in Mr. Goode;

1 is that right?

2 A Correct.

3 Q And, therefore, you have no basis to say that asthma
4 caused or contributed to his death; is that right?

5 A Well, I'll disagree with that only because the
6 forensic pathologist takes both a history and physical exam.

7 A physical exam in this instance is the microscopic
8 examination, but the history of this patient is reactive airway
9 disease.

10 So, even in the absence of physical findings, a
11 physician is obligated to attend to the history. And this
12 history does include reactive airway disease.

13 Q You're aware that that history exists, but you didn't
14 find evidence of that disease at autopsy?

15 A That is correct.

16 Q Okay. You did not have the opportunity to do a gross
17 inspection of Mr. Goode's organs or body, did you?

18 A Correct.

19 Q Now, aside from looking for asthma or evidence of
20 asthma on these glass slides that we've marked as Exhibit 1,
21 did you look for other abnormalities?

22 A Yes.

23 Q Did you find any abnormalities in these slides?

24 A No.

25 Q Is there anything in these glass slides that you've

1 analyzed that would lead you to a particular cause of death for
2 Mr. Goode?

3 A There are no positive findings. However, in
4 medicine, one uses different types of tests to either include
5 or exclude entries into the differential diagnosis, that list
6 of the different diagnoses that may explain the disease process
7 one is examining.

8 In this instance, for instance, the absence of
9 criteria for asthma death allows me to reasonably exclude that
10 as one of the major contributors to death.

11 In that sense, it does allow me to narrow the
12 differential diagnosis and come to a conclusion. But there are
13 no positive findings which point me to a specific disease
14 process.

15 It is the negative findings, the findings which are
16 absent, which allow me to exclude disease processes and thus
17 reach an answer.

18 So I -- I understand that one person who asks that
19 question might have meant to say: "Well, are there any
20 positive findings which gave you the answer?"

21 And the answer is "No." But negative findings do
22 allow me to reasonably exclude possibilities.

23 Q Can one see evidence of a cardiac arrhythmia on
24 pathology slides, such as you've reviewed?

25 A The arrhythmia itself is an electrical phenomenon and

1 cannot be seen on a glass slide. Although, there may be
2 morphological correlates, morphological findings which suggest
3 the possibility of arrhythmias based on our understanding, for
4 instance, of cardiac, normal and abnormal, appearance of
5 myocardium.

6 In this instance, however, I saw no abnormal findings
7 of the myocardium. So I could not see an arrhythmia because
8 it's an electrical phenomenon, and I saw no morphological
9 correlates which suggested that an arrhythmia might occur just
10 based on the appearance of the myocardium.

11 Q Can one see evidence of pulmonary compromise on glass
12 slides done at autopsy?

13 A The pulmonary function tests are not seen on glass
14 slides. But one can see, for instance, mucous plugging in
15 another case, which would allow me to reasonably conclude that,
16 because the airways are plugged with mucous, that the pulmonary
17 function will inevitably be compromised.

18 So I can see morphological correlates which allow me
19 to conclude that those tests would be abnormal. But, of
20 course, pulmonary function tests themselves are not tests that
21 are seen on glass slides.

22 Q Was there any evidence of any pulmonary compromise
23 when you looked at these slides?

24 A I saw no morphologic correlates which would suggest
25 that there was any underlying, acute or chronic, pulmonary

1 disease.

2 Q You have indeed read not only Dr. Barnhart's Autopsy
3 Report, but also Dr. Barnhart's deposition that Mr. Edwards
4 took a few weeks ago, correct?

5 A Correct.

6 Q Dr. Barnhart did not implicate Haldol and Ativan as
7 playing a role in Mr. Goode's death, did she?

8 A I am aware of that. That is correct.

9 Q There's no mention of that as a cause of death in her
10 Autopsy Report, is there?

11 A I agree with that statement.

12 Q And if you read her deposition, you saw that
13 Mr. Edwards asked her that precise question, and she expressed
14 the opinion that Haldol and Ativan did not contribute to
15 Mr. Goode's death. Did you see that?

16 A I am aware that is true.

17 Q It would appear that she and Dr. Wecht are in
18 agreement on that issue; is that right?

19 A I understand she specifically disputes it. I don't
20 know whether Dr. Wecht specifically disputes it. That is to
21 say, if you were -- if he -- if the question was posed to him,
22 I do not know what his response would be.

23 Q We know that he didn't include it in the report that
24 you've seen?

25 A That I'm aware of. And, obviously, before this

1 litigation is finished, someone is going to ask him.

2 Q Wouldn't a forensic pathologist normally list in a
3 report those things that he or she believed contributed to the
4 cause of death?

5 A There are lumpers and splitters. Those are the terms
6 that we use in medicine. Some individuals are more terse in
7 their opinion. Some are more verbose.

8 If he thought it was significant, I agree with you he
9 would've included it. It is possible that, when you ask him,
10 "Could it have contributed?" he may well consider that it was a
11 possibility. That's speculation. I don't know. I haven't
12 asked him yet.

13 But I would say to you, to be prepared, that he might
14 agree, "Well, it might have contributed, but it may not have
15 been significant." I don't know what he's going to say.

16 But if he thought it was an important part of the
17 cause of death, then I agree with you. He would've included
18 it.

19 Q With regard to your opinion pertaining to Haldol and
20 Ativan, is it your opinion that it may have contributed but was
21 not significant?

22 A By way of completeness, I'm going to give you a
23 slight more verbose answer. The onset action for IV Ativan,
24 lorazepam, is about 15 minutes. This individual received that
25 intravenous injection at about eight minutes after.

1 Some fifteen minutes later, they had received
2 bicarbonate in resuscitation. The estimate by the police
3 officer was about ten minutes. In looking back at the medical
4 record, it looks like it was less than 15 minutes.

5 So I believe that the period of time between the
6 intravenous injection of lorazepam and the cessation of
7 respiration was somewhere between 10 and 15 minutes. That is
8 about the time of onset of an intravenous injection of
9 lorazepam. Lorazepam is a well-known respiratory depressant.

10 In a person who has obvious metabolic acidosis from
11 the rough equivalent of prolonged isometric exercise -- and by
12 that, I mean the hogtying, the struggle -- and who is assuredly
13 in some state of exhaustion from this prolonged struggle, I
14 believe it is reasonable to conclude that a respiratory
15 depressant, which is lorazepam, acting in its published time
16 frame of action, and understanding that there is some biologic
17 variability, I believe it is reasonable to conclude that this
18 respiratory depressant at the least contributed, if not
19 significantly contributed, to the respiratory distress and
20 ultimate cessation of respirations that this patient
21 experienced.

22 Q My question was whether you have concluded that
23 Haldol and Ativan may have contributed to his death, but it
24 can't be determined with certainty? Is that your position?

25 A No, I tell you that lorazepam is a respiratory

1 depressant. I tell you that the time frame from the
2 administration of this lorazepam to the cessation of
3 respirations is the time frame that is published as the time
4 frame -- the time it took for this person to get the injection
5 and stop breathing is the published time frame of the action of
6 lorazepam from an intravenous injection. I find that temporal
7 relationship to be compelling. I believe it contributed. That
8 is my opinion.

9 Q But temporal association is not the same as
10 causation, though, is it?

11 A In forensic pathology, we believe in strict linkage.
12 And in evaluating strict linkage of causality, temporal
13 relationships are one of the criteria we use to assess causal
14 relationships.

15 And I -- I believe we -- we actually specifically
16 believe that in either Vern Adams' chapter in "Medicolegal
17 Investigation of Death" or Dolinak's discussion of strict
18 linkage in "Forensic Pathology."

19 Q Is temporal association different than causation?

20 A Temporal association is a criteria for assessing
21 causation.

22 Q Just because there's a temporal association does not
23 mean that there is cause and effect, though, right?

24 A I agree with that statement.

25 Q Okay. Is it your opinion that Haldol played any role

1 in Mr. Goode's death?

2 A The intravenous injection of Haldol is problematic.
3 But in looking at the effect of lorazepam, the causality, in my
4 opinion, is more compelling in the case of lorazepam. Even
5 though the intravenous injection of Haldol -- notwithstanding
6 the fact I won't be expressing an expert opinion on emergency
7 medicine treatment, in terms of toxicology, the intravenous
8 injection of Haldol is problematic.

9 But, nonetheless, I specifically cited lorazepam, and
10 that's because lorazepam is specifically associated with
11 respiratory depression.

12 Q I'm focusing on Haldol right now. With regard to
13 Haldol, you're not going to express the opinion that Haldol
14 contributed to Mr. Goode's death, are you?

15 A I will say that the -- while the intravenous
16 injection of Haldol is problematic and may well have
17 contributed, it is much less compelling than in the instance of
18 lorazepam, which is much more straightforward.

19 So I -- I differentiate the potential causality, and
20 I assess Haldol to be a much lesser probability than lorazepam,
21 which I find to be much more compelling because of its
22 published association with respiratory depression.

23 Q With regard to Haldol, would it be your opinion that
24 it may have contributed, but you can't be certain whether it
25 did?

1 A Yes.

2 Q Okay. And the basis for your opinion relative to
3 Ativan is that it is a respiratory depressant?

4 A Yes.

5 Q Is there any other basis that you have for your
6 opinion that Ativan contributed to Mr. Goode's death?

7 A In addition to everything we've discussed? No.

8 Q What dose of Ativan was he given?

9 A Two milligrams intravenous.

10 Q Just one dose, right?

11 A That is what I read, and I read that on -- on Page 14
12 of BMH-D Medications - Clinical Orders, I see "LORazepam
13 (ATIVAN) Injection 2 mg..." And I see Last "Administration"
14 date 7/18/2015, July 18, 2015, at 28 -- 2108, 2-1-0-8 hours.

15 Q Were there levels of Ativan detected in the
16 toxicology studies done postmortem?

17 A In looking at the Autopsy Report, NMS Lab, I see
18 lorazepam, 8.7 nanograms per mil from the subclavian blood.

19 Q Is that a therapeutic level?

20 A Yes.

21 Q It is not a high level, is it?

22 A I agree.

23 Q Did you know that the Plaintiff has identified an
24 expert who says that Mr. Goode should've received more Ativan?

25 A That I was not aware of aware of.

1 Q Have you reviewed any disclosures or reports from
2 defense experts in this case?

3 A I have a package from Dr. -- the package is from the
4 Plaintiff's attorney, but it includes an expert report by
5 Dr. Vilke, the Curriculum Vitae, and two articles coauthored by
6 Dr. Vilke. And I believe I've brought with me a textbook
7 entitled "Sudden Deaths in Custody," for which Dr. Vilke is one
8 of the coauthors.

9 Q Did you review Dr. Vilke's supplemental report, or
10 only his original report?

11 A I will show you the report that I have. It's dated
12 February 28th of 2017. And this, I believe, is the only report
13 that I've received that is originating from Mr. Vilke.

14 Q Okay. And you have not then read the reports of any
15 of the forensic pathology experts identified by any Defendant?

16 A Only Dr. Barnhart, to the best of my knowledge. I
17 don't recall any others, other than Dr. Barnhart. And I
18 understand that Dr. Barnhart is not per se a defense expert,
19 but merely a fact witness.

20 Q She is the forensic pathologist who did the autopsy.

21 A Right. And that's why I designate her as a fact
22 witness. And even though she may well be subpoenaed by the
23 defense, I recognize the difference between a person who did
24 the autopsy and a person subsequently contracted to review
25 work. I obviously recognize that.

1 Q Did you know that she gave a deposition in this case
2 because she was subpoenaed by the Plaintiff?

3 A I have received an electronic copy of that
4 deposition.

5 Q How is her role different than yours in this case?

6 A She is the forensic pathologist of record who is
7 commanded, choose your own verb, by the state to conduct an
8 investigation into the cause and manner of death.

9 I, on the other hand, am not commanded by the state,
10 but I am contracted by one of the representatives of the
11 litigants. And so I perceive that there is a difference there,
12 as -- and all forensic pathologists understand there's a
13 difference between those two.

14 Q Is there any advantage that a forensic pathologist
15 has who does an autopsy?

16 A The forensic pathologist who does the autopsy has the
17 ability to take every sample that they believe may be relevant.

18 A subsequent pathologist is limited to the samples
19 and more generally the inquiries made by the original
20 pathologist. There's a difference.

21 Q Do you think that a forensic pathologist, who did an
22 autopsy, is entitled to any deference as compared to a
23 consultant who may have been retained after the litigation
24 began?

25 A I'm not going to be arbitrarily argumentative. But

1 in the sense of deference, what is the meaning --

2 Q With regard to the cause of death or opinions
3 expressed.

4 A I believe there may be an initial impression that a
5 person hired by the state has a position that is perceived as
6 more disinterested. And then subsequent inquiry and the
7 position of that opinion with a published text, will reveal or
8 fail to reveal any subsequent assignment of credibility to that
9 opinion. But I agree they initially begin with a greater sense
10 of disinterest.

11 Q Do you know Dr. Greg Davis?

12 A I don't recall meeting him, but the forensic
13 pathologists are few and far between. I may well have met him.
14 We're not drinking buddies. I don't recall any prolonged
15 conversations with him. There aren't very many of us, so it'd
16 be no surprise if we'd bumped into each other at a meeting.
17 There's only about 400 of us total. We can all get into one
18 room.

19 Q You have not reviewed his report in this case, have
20 you?

21 A I have not.

22 Q Do you know Dr. Gerald Gowitt?

23 A I do not, that I know of.

24 Q You've not reviewed his report in this case, have
25 you?

1 A That is correct.

2 Q Other than Dr. Vilke's February 2017 report, is there
3 any other report of any defense expert you have reviewed?

4 A I'm thinking. Not that I recall. I don't think I
5 have.

6 Q Have you reviewed any postmortem photographs of
7 Mr. Goode?

8 A No. Not that I recall. I have a disk with a
9 pre-mortem video at a hospital and at a scene, but I believe
10 those are pre-mortem.

11 Q That's referenced in your report, isn't it?

12 A It's a disk in this binder that --

13 Q Yes.

14 A -- I believe you looked at.

15 Q You're -- oh. Have you -- you reviewed Dr. Nichols'
16 deposition?

17 A I do not believe so.

18 Q Based upon your review of these records, did you
19 conclude that Mr. Goode had taken any illegal drugs before his
20 death?

21 A Yes.

22 Q What?

23 A LSD.

24 Q Anything else?

25 A I understand that he had taken marijuana, which is

1 illegal in his jurisdiction but not in ours.

2 Q You described in your report behavior that Mr. Goode
3 exhibited after taking LSD, right?

4 A Yes.

5 Q And what behavior do you understand LSD caused in
6 this case?

7 A Colloquially, he had a bad trip. More specifically,
8 he was running around; he was talking in a nonsensical fashion;
9 he was uttering phrases that made no sense to a sober, rational
10 individual.

11 Q Such as?

12 A I believe he said something to the effect of "I don't
13 know how to explode." I perhaps recall that. That, of course,
14 makes no sense to a sober, rational person. So he clearly was
15 running around and acting in what we'd consider an irrational
16 fashion.

17 Q Out of control?

18 A Yes.

19 Q Combative?

20 A That is my understanding, yes. Although I didn't see
21 it in the videos, my understanding from the accounts is he was
22 out of control and combative.

23 As I understand it, he walked up to a police car and
24 in an uninvited fashion opened the door to the police car.
25 Clearly, you know, socially and legally unacceptable behavior.

1 Q And you relate all of that behavior to his ingestion
2 of LSD?

3 A Likely. Although marijuana is a hallucinogen, I
4 believe it's likely related to his LSD.

5 Q Did marijuana use contribute to that behavior?

6 A It may have, but it is a less common response to
7 marijuana and a more common -- much more common response to
8 LSD.

9 In this jurisdiction, marijuana is quite common, and
10 yet this behavior is not common. So I tell you that this
11 response to marijuana is possible, but quite uncommon.

12 Q When you say this jurisdiction, you're referring to
13 Colorado --

14 A State of Colorado which --

15 Q -- where we are today?

16 A -- is where we are today.

17 Q Okay. the pages of your report are not numbered, but
18 as I count them, on the sixth page of your report -- if you
19 could locate that page, please. It has a heading at the
20 bottom. It says "The Baptist Medical Records." Are we looking
21 at the same page?

22 A Yes.

23 Q In the incomplete paragraph that begins that page,
24 the last sentence says, in part: "Likewise, the excited state
25 precipitated by ingestion of LSD..."

1 Do you see that phrase? You refer to "the excited
2 state precipitated by ingestion of LSD."

3 A Ah, at the top --

4 Q Yes, sir.

5 A -- yes.

6 Q Tell us what you mean by that phrase, "the excited
7 state precipitated by ingestion of LSD"?

8 A As I understand the description of his behavior, any
9 common person seeing him run around in circles would agree that
10 he was quite excited.

11 No one would dispute that a person running around in
12 circles, opening up a police car door uninvited, that type of
13 behavior clearly -- and that you could use multiple different
14 adjectives, and individuals would, but "excited" is an
15 adjective that no one would dispute.

16 Q And it's the way that you chose to characterize it in
17 your report, an "excited state precipitated by ingestion of
18 LSD"?

19 A Yes.

20 Q Did you read that Mr. Goode was claustrophobic?

21 A I don't recall the specific sentence, but my general
22 recollection is that he had -- he may well have expressed that
23 opinion, you know, during the sequence of events.

24 Q I'm not suggesting to you that somebody actually used
25 the word "claustrophobic." But did he have that sensation of

1 being claustrophobic?

2 A I don't recall the specific symptoms, but it's -- my
3 recollection is that he went through a series of altered
4 perceptions, and I believe that was one of them. And that
5 again is common with LSD.

6 Q So, if -- if there's a description in the materials
7 that he could not stand being in the confines of the automobile
8 and got out, that would be something you've seen with LSD?

9 A I myself have not seen that many individuals, you
10 know, who died while under the influence of LSD. I've never
11 seen a person who died because of LSD.

12 But LSD came -- came and largely went before I
13 started practicing forensic pathology. And I've never seen a
14 person who died because of LSD, and I've seen individuals --
15 many individuals who exercise bad judgment because of other
16 drugs. But LSD is not as popular right now as other
17 hallucinogenic drugs.

18 Q Was Mr. Goode under the influence of LSD on the date
19 of his death?

20 A Assuredly.

21 Q Do you know of circumstances where LSD has
22 indirectly caused someone's death?

23 A Individuals exercise extremely poor judgment
24 frequently because of altered perception while under the
25 influence of LSD and partake in severely untoward behavior

1 which results in their death.

2 Q Was Mr. Goode's arrest in the hospital a sudden one?

3 A I've contemplated that question. And insomuch as
4 this person's medical course was prolonged over a considerable
5 period of time, and indeed there was an initial pulse oximetry
6 reading of 90 percent, which is the cusp of the requirement for
7 therapy with oxygen, I think it inappropriate to call this a
8 sudden death because there was a clear indication of
9 physiologic abnormalities for a prolonged period of time before
10 his ultimate respiratory arrest.

11 Q What were those indications?

12 A Well, there's a pulse oximetry reading which is
13 clearly abnormal. With a prolonged struggle in a hogtie
14 position, there was assuredly a metabolic acidosis. Although I
15 do not have a blood test from the hospital that verifies that,
16 I'm completely comfortable diagnosing a metabolic acidosis
17 based on that period of a version of isometric exercise in the
18 hogtie position.

19 There is a description by the female civilian in the
20 emergency room, which describes the decedent as -- I'll just
21 summarize -- exhausted.

22 In light of those physiologic abnormalities and a
23 prolonged time period until cessation of breathing, I don't
24 think I would call this either sudden or unexpected, because of
25 that prolonged time period.

1 When I think of sudden and unexpected, I think of a
2 person carrying on a casual conversation and then, you know,
3 they're grasping their throat or grasping their chest and
4 keeling over in front of everybody in an unexpected fashion.

5 Q Do you have --

6 A This is -- this is not that case.

7 Q Do you have an understanding as to how long it was
8 from the time from which Mr. Goode stopped fighting or
9 struggling until he arrested?

10 A Some of the accounts indicate that the time period
11 was quite short. And I refer to the account by the police
12 officer who recounts that this person had a period of, you
13 know, about ten minutes.

14 My perception is that that account disagrees or is
15 not consistent with the account by the female civilian, who
16 gives an account of a person, who I interpret as subdued, as
17 they're being transported to the other room. So my perception
18 is there's a discrepancy in opinions by different witnesses.

19 Q Did you take on the role as one who decides which
20 witness to believe and which to reject, or is that somebody
21 else's job?

22 A As a forensic pathologist, I train the younger
23 physicians coming up that one must attend to what everyone
24 says, but there are going to be inevitably discrepancies. So
25 that, at some point, one is going to have to make an assessment

1 as to who is more likely accurate or less likely accurate. I
2 will have to make an assessment at some point.

3 In this instance, to some extent, it's not critical
4 that I sort that out. I could've figured out that, after a
5 prolonged period of isometric exercises, the individual would
6 be exhausted. And I would've -- I would've made that
7 assessment independent of the civilian that has that eyewitness
8 account.

9 And I have -- for purposes of my assessment of the
10 contribution of lorazepam, I have, in addition to the
11 eyewitness account of the police officer, attempted to verify
12 that as -- as you've seen, using time documentation in the
13 medical record.

14 And that was my discussion of the time frame of the
15 onset of the action of lorazepam given in an intravenous
16 injection. I both used -- as we've discussed earlier today,
17 both the verbal description of the police officer as well as
18 the timestamp declarations in the medical record.

19 So, yes, I -- I will assess their credibility, and I
20 will use as many ancillary clues, pieces of documentation, as I
21 can, to create the most reliable timeline that I'm able to do
22 in making my opinion. Yes, I do assess their credibility.

23 Q Is there a difference between the assessment done and
24 reported by the healthcare providers versus Mrs. Tharp, who I
25 believe is the lay witness to whom you've made reference?

1 MR. EDWARDS: I'm sorry, could you read that
2 back?

3 (Record read back by reporter.)

4 MR. EDWARDS: Yeah, object to the form.

5 A I believe there's a discrepancy. As I understand,
6 the healthcare providers, as I best understand it, had
7 indicated that there was screaming and that type of activity,
8 clear to the time of the intravenous injection of lorazepam.

9 Because the description by the lay witness was a
10 description of a person between hospital rooms, while she
11 doesn't have a timestamp on that observation, I interpret that
12 so as to mean before he reached his secondary room.

13 So I perceive a difference in their timing of his
14 subdued behavior, but I agree that -- I don't recall that she
15 put a timestamp or made a recollection of the specific -- I
16 don't recall that she made a specific recollection of the time.
17 But as I put the circumstances back together, I believe they
18 are different, only because of the location of the patient when
19 each observation was made.

20 Q (BY MR. PHILLIPS) Would it make any difference, in
21 the conclusion you've reached, if the description by the
22 medical providers is accurate?

23 A As to my cause or manner of death, it will make a
24 difference.

25 Q You have not read Dr. Oliver's deposition, have you?

1 A I do not believe I have.

2 Q And do you know that there are some other hospital
3 personnel who have been deposed, whose depositions you've not
4 read?

5 A In this package I showed you, I believe there's an
6 RN, Jeffrey Baker. I have read that deposition. I don't
7 believe I've read any of the depositions of any of the other
8 healthcare providers, that I recall.

9 Right now, I tell you, based on what I've seen, it's
10 unlikely that there is anything that they would say that's
11 going to alter my opinion. I would, of course, be happy to
12 read them.

13 Q Is there any reason you wouldn't consider the
14 deposition testimony of the eyewitnesses before reaching an
15 opinion?

16 A I would, of course, be happy to read them. But I
17 tell you that the opinion, particularly on the lorazepam, is
18 based substantially on the only eyewitness, the police officer,
19 and the medical record.

20 And it -- I believe it unlikely that any of the other
21 healthcare providers are going to dispute the time record
22 that's in the published medical record. It's possible they
23 would dispute it.

24 And if they did, I'd have to listen to what they had
25 to say. For instance, if they said, "Well, we never

1 administered lorazepam," obviously, I'd have to consider that
2 and judge that with the medical record.

3 So, when you asked, "Should you consider it?" yeah,
4 if they specifically dispute the medical record, then I'm gonna
5 have to consider that.

6 Q Well, shouldn't you consider the testimony of the
7 eyewitnesses to the patient's condition in the emergency room
8 if you're going to be providing opinions about his condition in
9 the emergency room?

10 A Of all of the opinions I've read, there appears to be
11 widespread consensus that he was acting in an irrational and
12 excited fashion.

13 Q While in the emergency room?

14 A Yes.

15 Q Okay.

16 A Both before and after arrival. So I do not doubt
17 that he had this response to LSD, colloquially bad trip, more
18 specifically combative, irrational, "I don't know how to
19 explode." Clearly acting in that fashion. I don't dispute
20 that.

21 I -- I don't understand -- I'm not aware that there
22 is any dispute that he was hogtied. Plus, I got to see the
23 videotape. So that the police accounts of when this event
24 started at the concert and the medical record documentation of
25 when it terminated with his cessation of breathing appears to

1 be beyond dispute, as near as I can tell.

2 If someone were to say, "Well, you know, it wasn't at
3 a concert," or "We didn't give lorazepam," or "He wasn't
4 combative," that would be important. But it doesn't sound like
5 that's going to occur.

6 I believe, in my medical opinion, I have seen
7 sufficient documentation, have seen the Autopsy Report, to
8 reach this conclusion, or I would not have reached it.

9 Q You did consider among the Baptist medical records --

10 THE REPORTER: I'm sorry, you did
11 consider?

12 Q (BY MR. PHILLIPS) You did consider among the Baptist
13 medical records the note that Dr. Oliver made, right?

14 A I will tell you what I have from the medical records.
15 I have on Page 8 a note signed by Dr. Oliver, drug abuse, acute
16 psychosis, and cardiopulmonary arrest.

17 I have a history and physical examination by
18 Dr. Oliver, which is Pages 6 and 7. I have a diagnosis of
19 respiratory failure by Dr. Oliver and intubation time of
20 9:27 p.m.

21 Q Did you accept Dr. Oliver's description of the
22 patient, at the time Dr. Oliver saw the patient, as being
23 accurate?

24 A I will recount what it says. I note that he says:
25 "I was unable to gather any meaningful history from the patient

1 because he continued to scream violently and incoherently
2 during the encounter. He kept repeating 'I do not know how to
3 explode.'"

4 So, yes, I understand what Dr. Oliver has said --

5 Q My -- my question --

6 A -- and I take that at face value. I do understand
7 that, in assessing the timeline, that there is a -- an account
8 by a civilian female in the ER, which does appear to have some
9 discrepancies with any assertion that he was acting in the same
10 fashion up until the moment he got the intravenous injection of
11 Ativan and Haldol. I understand there's a discrepancy.

12 But in making my determination that he was in a
13 hogtie restraint, that he had a pulse oximetry reading of 90,
14 my assessment that he would've had a significant metabolic
15 acidosis, that discrepancy doesn't play into my diagnosis. I
16 understand that it exists, but it doesn't compel me to go one
17 way or another away from those diagnoses.

18 Q I simply wanted to know, having refreshed yourself on
19 what Dr. Oliver described in his notes as the patient's
20 condition when he saw the patient, if you accept that factual
21 description as true, or if you think it's an inaccurate
22 description, or have no opinion on that topic?

23 A Do I accept it as true? It is certainly similar to
24 the descriptions given by multiple individuals. So there is
25 significant reason to believe that, for a period of time, it is

1 completely accurate.

2 As to how long the -- the activity was like that, I
3 understand there's a discrepancy. But at one time or another,
4 do I believe that Dr. Oliver actually saw and heard these
5 things? I believe that's reasonable to believe.

6 I'm just saying I don't know how long he behaved in
7 that fashion. And in assessing the hypoxia due to the hogtying
8 and the respiratory depression by the lorazepam, I'm not sure
9 that discrepancy is a compelling aspect of either disputing my
10 medical opinion or accepting it.

11 Q Do you understand that Mrs. Tharp, the lay witness to
12 whom you've made reference, saw the patient before
13 Dr. Oliver saw the patient and did not see the patient at the
14 time Dr. Oliver was evaluating the patient?

15 A I do not know the relationship between those two --
16 the time relationship between those two events. I do not know.

17 Q Is an oxygen saturation of 90 percent
18 life-threatening?

19 A It is on the cusp of a measurement that would require
20 oxygen therapy. In addition, that statement is obviously
21 appropriate to make in any individual. I caution you that this
22 particular individual had another significant physiologic
23 challenge, and that is metabolic acidosis, so that this patient
24 is different than other patients who do not have a significant
25 metabolic acidosis.

1 And I would caution any medical caregiver that a
2 pulse oximetry reading of 90 in and of itself carries certain
3 cautionary admonishments, more so in a person who had another
4 underlying physiologic problem, and that's metabolic acidosis.

5 Q In your practice, do you normally use and respond to
6 oxygen saturation measurements?

7 A Since 2005, no. I do -- since -- other than seeing
8 patients with trauma, all the patients have been dead patients.

9 Q Is it your opinion that, had Mr. Goode been
10 restrained in a different manner, he would have been combative
11 and struggled?

12 A The answer to that question is "Yes."

13 Q Why?

14 A Because he was combative and struggled prior to the
15 time he was restrained, when he was running around, opening the
16 door uninvited to the police car. It is reasonable to conclude
17 that, if he was acting in an irrational fashion before he was
18 restrained, he would continue after he was restrained,
19 irregardless -- not the "irregardless," the word. It's not a
20 word. But regardless of -- regardless of the type of
21 restraint, I believe it reasonable to conclude that he would've
22 continued his unreasonable behavior.

23 Q And irrespective of the manner of restraint, if he
24 continued his struggle against the restraint, how would that
25 affect him?

1 A Even if there was no restraint, every individual is
2 going to tire as they run around, and everyone is going to
3 understand that intuitively.

4 Forensic pathologists have identified the hogtying as
5 a particular type of restraint which is problematic. There are
6 other types of restraint which may be more or less problematic.

7 I'm certainly familiar with individuals who have been
8 restrained chemically. In some instances, an individual would
9 be given a version of curare and paralyzed and intubated. That
10 individual would not experience the muscular activity, of
11 course, of a person who's running around either restrained or
12 not restrained. So there are different ways of restraining a
13 person both physically and chemically.

14 So, when you say both of us agree that
15 irrespect --

16 THE REPORTER: I'm sorry?

17 A Both of us agree that -- the word -- not
18 irrespectively or whatever, is not a word, but the type of
19 restraint is going to affect the degree of muscular activity.

20 A chemical restraint with paralysis by one of the
21 curare medications, there would be no muscular activity because
22 the person is paralyzed. With other types of restraint, there
23 will be relative degrees of muscular usage.

24 If pressure is applied to the back, that doesn't
25 change muscular usage; it changes respiratory effort. In some

1 sense, it changes muscular effort because, if there's pressure
2 on the back, one still needs to move one's chest wall in order
3 to breathe. If there's pressure on the stomach, one still
4 needs to move one's diaphragm in order to inflate the lungs.

5 So pressure on the back will exacerbate the muscles
6 used for respiratory effort, both diaphragm and intercostal
7 muscles.

8 The type of restraint will also affect the amount of
9 isometric activity of the muscles of the extremities. And that
10 is why forensic pathologists have identified the hogtie
11 restraint, both because of pressure on the abdomen, making it
12 more difficult to move one's diaphragm, as well as the
13 inevitable isometric struggle against the restraint, causing
14 exhaustion and concomitantly metabolic acidosis.

15 Q (BY MR. PHILLIPS) Let me ask my question again
16 because --

17 A Please.

18 Q -- with respect, I don't think you've answered it.

19 A Please.

20 Q If you'll focus on my questions and try to answer
21 them, that would help us move along.

22 A Please.

23 Q If Mr. Goode had been restrained in some manner other
24 than what you've been referring to as the hogtie position, you
25 have said that you think it likely that he would've continued

1 to struggle against those restraints?

2 A I agree.

3 Q My question to you simply is: How would that
4 struggle against a different type of restraint have affected
5 Mr. Goode, in your opinion?

6 MR. EDWARDS: Object to the form, unless you
7 specify the form of restraint that you're asking about.

8 A And, of course, because I -- there are different
9 types of restraints, it's a bit of a guess or speculation.

10 Q (BY MR. PHILLIPS) Well, let me refine it for you.
11 Suppose he is supine with his arms and legs tied in some
12 fashion to the gurney, and he struggles against those
13 restraints. How would that likely impact him?

14 A The supine position has been identified in the
15 forensic literature as the position in which it is easier to
16 breathe. And depending on the nature of the restraint of his
17 extremities, he may or may not respond in a more docile
18 fashion.

19 Q Would his combating or struggling against that type
20 of restraint drive his heart rate up probably?

21 A If he is struggling with or without restraints, his
22 heart rate will be accelerated. So that even when he was
23 outside restraints, running around, his heart rate would be
24 accelerated because he was running around.

25 Q Would you expect his running around, as you've

1 described also, to increase his blood pressure?

2 A It would definitely increase his cardiac output. It
3 would probably increase his pressure and pulse.

4 Q If he were restrained supine with his arms and legs
5 attached to the side of the hospital gurney, would he still
6 have the effects that you've described as being similar to
7 isometric weightlifting?

8 A It is possible that he would, or it is possible that
9 he wouldn't, depending on his perception of his -- and we both
10 agree he has an altered perception and a sense of
11 claustrophobia and other types of altered perception. But his
12 response to his environment is going to affect his level of the
13 equivalent of isometric exercise. I agree, it will change.

14 MR. PHILLIPS: This is a good time for us
15 to take a short break. Why don't we do that, and we'll resume
16 shortly. Fellas on the phone, we're gonna take a short break,
17 and we'll be back in a few minutes.

18 (Recess taken at 10:02 a.m. and back in
19 session at 10:12 a.m.)

20 Q (BY MR. PHILLIPS) Was Mr. Goode at risk for sudden
21 death irrespective of the manner in which he was restrained?

22 MR. EDWARDS: Object to form.

23 A There are no autopsy findings to suggest he was
24 predisposed to sudden death from any type of natural disease.
25 There is a history of asthma. Although, as I've stated, I saw

1 no findings in the microscopic examination. And neither
2 marijuana nor LSD are associated with sudden, unexpected death,
3 you know, due to the -- particularly the marijuana at this
4 level. But marijuana and LSD are not associated with
5 toxicological death.

6 So I don't see anything in either his history or
7 Autopsy Report or toxicology which would indicate that he was
8 at any greater risk of sudden, unexpected death than the
9 background population.

10 Q (BY MR. PHILLIPS) Well, given the fact that he had
11 taken LSD and, as you've said colloquially, was having a bad
12 trip, if he were restrained in some other fashion, but
13 combative and struggling against those restraints, would he be
14 at risk for sudden death?

15 MR. EDWARDS: Object to the form.

16 A And, again, you know, to be fair, I don't know to
17 what type of restraint you are referring. There are perhaps
18 types of restraints which would have also compromised his
19 respiratory effort and exacerbated his perceptions, albeit
20 altered, that caused him to struggle.

21 There are other types of restraints which would not
22 have been as exacerbatory (sic) or would not have tended to
23 exacerbate his underlying physiology. So the answer could go
24 both ways, depending on the type of restraint.

25 Q (BY MR. PHILLIPS) What is beta phenethylamine?

1 A I don't recall specifically -- I've got
2 Goodman & Gilman. We can look it up.

3 Q Do you know what that is?

4 A No.

5 Q Did you see the toxicology studies that Dr. Wecht
6 did?

7 A I have them here. I see beta phenethylamine.

8 Q That was found present on the toxicology studies that
9 Dr. Wecht did?

10 A Yes.

11 Q Do you know the significance of that --

12 A I do not.

13 Q -- being in Mr. Goode's body?

14 A I do not.

15 Q You've made reference earlier to there being
16 situations where pressure is applied to the back of folks when
17 they're restrained. Remembering making that comment?

18 A I do.

19 Q In the emergency room, was there any pressure or
20 weight being applied to his back?

21 A I did not see any specific description of that, no.

22 Q Do you have an understanding as to how restricted he
23 was in the restraint that was being used on him?

24 A I have an understanding.

25 Q Do you have any understanding as to whether he could

1 move his legs back and forth?

2 A My understanding is that, within the construct of
3 cuffs around his or restraints around his legs, and secured to
4 the restraints around his wrists, it still did allow for
5 movement, yes. That's my understanding.

6 Q And would that be a good thing for the patient?

7 A The more they can move, the better for the patient.

8 Q I mean, it would be possible to restrain somebody so
9 that they could not move their legs at all; is that --

10 A I agree.

11 Q He was not restrained in that manner?

12 A I agree -- to the best of my knowledge, I agree.

13 Q There were no straps across him in the emergency
14 department, were there?

15 A In the emergency department, I don't recall that
16 description. I do recall a description of five straps that may
17 have been present at an earlier time period.

18 Q But not in the emergency room?

19 A Not that I recollect.

20 Q So would that mean that he was less restrained in the
21 emergency room than he had been previously?

22 A That is possible.

23 Q If there had been straps over him, if there had been
24 weight on his back, and there was neither straps on him nor
25 weight on his back in the emergency room, he would be less

1 restrained in the emergency room than he had been previously,
2 correct?

3 A To an extent, I agree.

4 Q Is acidosis normally determined through laboratory
5 testing?

6 A Yes.

7 Q What kind of testing?

8 A You can do a blood test to determine the pH, meaning
9 acidic or basic nature of the blood.

10 Q Arterial blood gasses?

11 A Yes.

12 Q We don't have that data for Mr. Goode, do we?

13 A I agree.

14 Q So we don't have a laboratory basis or a test that
15 would lead or support the conclusion of a diagnosis of acidosis
16 in this patient?

17 A I agree.

18 MR. EDWARDS: Doctor, let me see that, please.

19 THE WITNESS: (Handing notebook.)

20 MR. EDWARDS: Thank you.

21 Q (BY MR. PHILLIPS) If a patient is yelling and
22 screaming, what does that indicate about his ability to breathe
23 and move air through his lungs

24 A That he is able to pass air over his vocal cords,
25 yes.

1 Q With -- with every occasion that the patient wanted
2 to yell or scream, there would have to be an inspiration of
3 breath to be able to yell or scream, right?

4 A Yes.

5 Q Is bicarbonate used after cardiac arrest to treat
6 metabolic acidosis?

7 A Yes.

8 Q And to treat the metabolic acidosis that's associated
9 with cardiac arrest?

10 A In a cardiopulmonary arrest, a substantial part of
11 the ensuing acidosis will be related to the lack of
12 respiration. That portion I would term a respiratory acidosis,
13 because the person is no longer blowing off CO2.

14 So this person, in my medical opinion, had an
15 underlying metabolic acidosis because of muscular activity.
16 And then when this individual stopped breathing, that was
17 exacerbated by the onset of what is now respiratory acidosis
18 from cessation of blowing off CO2.

19 Q In your practice currently, are you normally involved
20 in diagnosing acidosis in patients?

21 A Well, in live ones, no. But in dead patients, I do
22 review medical charts on a regular basis to assist me in
23 determining why they're dead.

24 And I'll go further. Individuals may die, for
25 instance, of alcoholic ketoacidosis. That is a diagnosis I

1 make. And while I cannot measure acidosis in a postmortem
2 individual and reliably predict their pre-mortem status based
3 on pH, because they now have an overlying respiratory acidosis,
4 I can measure ketones in the vitreous humor.

5 And I use those ketones along with vitreous urea
6 nitrogen and creatinine to determine whether individuals may
7 have a -- either an alcoholic ketoacidosis or diabetic
8 ketoacidosis, and I do make those diagnoses as a cause of
9 death. But I make those based on an inference of their
10 acidotic state in a postmortem individual, based on their renal
11 function and ketones in the vitreous humor.

12 So it is something I have to deal with, because I
13 have to make that diagnosis. I just do it a different way
14 because in dead people you can't use an arterial blood gas to
15 reliably determine pre-mortem acidotic state. In a living
16 person, you can't take their vitreous humor.

17 Q We know from your report that you've set forth your
18 cause-of-death opinion in this case, right?

19 A Yes.

20 Q And what role do you think positional asphyxia had in
21 Mr. Goode's death?

22 A I've referenced the textbooks. And when you go to
23 the textbooks, you're going to find why my opinion exists. I
24 believe that the restraint significantly contributed to
25 respiratory compromise, and I cite the pulse oximetry reading

1 as some laboratory evidence of that.

2 And it is my, you know, training and experience in
3 medicine where I point to the metabolic acidosis caused by
4 straining against the restraint. And I believe I've cited the
5 forensic literature which indicates that it is reasonable to
6 conclude in this particular type of restraint that the struggle
7 against those restraints contributed significantly,
8 sufficiently, to assign a degree of causality to the death.
9 And that comes right out of the literature, and I've cited
10 that.

11 Q Sometimes I ask bad questions, so I apologize if I've
12 done that. Can a patient have primary causes of death and
13 secondary causes of death?

14 A Yes. And by secondary, I mean contributory causes.
15 We use the word contributory. But I -- I knew what you meant.
16 You meant secondary or contributory. And I agree.

17 Q Yeah. And what category is positional asphyxia, in
18 your opinion?

19 A Obviously, in this case I've cited two important
20 factors: Lorazepam, respiratory depression; restraint causing
21 hypoxia and metabolic acidosis.

22 And I've agreed with you that different forensic
23 pathologists may reasonably assess different causality --
24 different degrees of causality.

25 In this instance, I believe I'm attending quite

1 closely to the forensic texts when I say that the hogtie
2 restraint contributed to a degree, which I won't put a metric
3 on, a number, but sufficient to list it as a cause of death.
4 And I base that on the published literature.

5 But I -- in this case, I have also admonished the
6 reader of my report that, while the forensic literature clearly
7 identifies this hogtie as a sufficient cause of death, and it
8 is certainly within the forensic pathology standard of practice
9 to use that as a cause of death, and this person did indeed
10 have that restraint -- in this particular case, I've admonished
11 the reader of my report that, because of the -- what I believe
12 is a very strong temporal relationship -- and we've talked
13 about causality and temporal relationships. But because of the
14 temporal relationship, I have admonished the reader that the
15 administration of a respiratory depressant in the setting of
16 what I already believe to be a methodology sufficient to cause
17 death, lorazepam has to be considered as contributing in a
18 sufficiently significant fashion that I believe it must be
19 listed.

20 So I've listed those two causes, and I -- I believe
21 both of those fall well within the published forensic
22 literature.

23 As to a metric or a number, I can't put a metric or a
24 number on them. But I believe it is reasonable to list both of
25 them based on the published forensic literature.

1 Q Did Mr. Goode's fighting against the restraints
2 contribute to his death?

3 A I believe the answer to that question is "Yes."

4 Q How so?

5 A It is his fight against those restraints, the use of
6 those muscles, which exacerbated metabolic acidosis. So I am
7 convinced that the physical struggle against those restraints
8 contributed to his -- what we call physiologic challenge, or
9 physiologic insult. I'm not saying, "You dirty rat." By
10 physiologic insult, I'm saying the perturbation in his
11 physiology, and that is specifically metabolic acidosis.

12 Q Did the LSD contribute at all to his death, in your
13 opinion?

14 A While LSD, to the best of my knowledge, in the
15 history of medicine, has never been known to cause death, it
16 certainly caused his combative state.

17 And I have told you that his combative state and his
18 combat against the restraints is the etiology or cause of his
19 metabolic acidosis. So I believe there is a relationship, yes.
20 Of course, there is a relationship.

21 But I also caution you, to the best of my knowledge,
22 LSD in and of itself, either through toxicological means, has
23 never caused a death that I'm aware of. And I brought three
24 textbooks which specifically state that so that we can review
25 "Why would I issue that statement?"

1 Q But the way it contributes, in your opinion, is not
2 because it was at a toxic level, but because it led to the
3 struggle and combativeness against the restraints?

4 A And anyone -- even the most casual, non-medical
5 individual would understand that. His struggle was a
6 consequence of his ingestion of LSD.

7 Q You have made a point in your report as to how
8 Mr. Goode's death should be classified. Do you remember
9 commenting on that near the end of your report?

10 A Yes, I do.

11 Q Is that at all important for the conclusion you reach
12 as to his cause of death?

13 A Cause and manner are different. In this -- certainly
14 in this jurisdiction, the coroner has, you know, those two
15 obligations. And that is -- those two obligations apply to,
16 you know, every state and, you know, the other country in which
17 I practiced forensic pathology. Even down in New Zealand
18 that's required. Cause and manner.

19 Manner, we only have five choices, as you likely
20 know: Homicide, suicide, accident, natural, and undetermined.
21 So those are separate issues.

22 So, when you say -- if you ask, you know, "How are
23 they linked?" they're separate issues. Those are separate
24 issues. Obviously, the manner depends on the cause, but the
25 cause does not depend on the manner.

1 Q What is the basis for your opinion that his death --
2 his manner of death should be classified as a homicide?

3 A That comes right out of the published literature that
4 I've -- that I've cited here, and I've brought some of it with
5 me so we could look over that together.

6 And -- and the basis of the reasoning is this:
7 Homicide is defined as death at the hands of another. And then
8 by another, they mean another human being.

9 In this instance, there was indisputably a violent
10 struggle. And the hogtying -- I don't believe there's any
11 dispute that those handcuffs were affixed by another human
12 being.

13 So that the literature indicates that, when there is
14 a violent struggle between human beings, and the forensic
15 pathologist believes that that violent struggle contributed to
16 death, then the appropriate determination of manner is homicide
17 because of the definition of death at the hands of another.

18 Q That's not to suggest that you're opining that
19 another intended to cause Mr. Goode's death, is it?

20 A I agree entirely with your statement. In making the
21 medical determination of homicide, it is as I have described,
22 death at the hands of another.

23 My medical determination is different than a legal
24 determination. And every time this issue comes up in court, if
25 you were to review my transcripts, you would see that I assure

1 the court that I am not invading the province of the court, and
2 that is determining the legal nature of the event. I'm only
3 determining the medical nature of the event, but I will not
4 invade the court's ability to determine the legal nature of the
5 event. So my use of the term "homicide" is a medical term.

6 Q You understand that the case we're here to discuss is
7 a civil and not a criminal case, right?

8 A I agree. That is my understanding. This has --
9 there are no state attorneys or prosecuting attorneys involved
10 in this case whatsoever, neither on the telephone or in any
11 aspect of this case.

12 Q And if a forensic pathologist reached a conclusion as
13 to manner of death, it was homicide, it would then be up to the
14 prosecutor in that jurisdiction to consider that information
15 along with everything else and make a determination about
16 whether to pursue that under the criminal laws?

17 A Right. And that's what I mean by province of the
18 court and the associated officers of the court, who are the
19 prosecuting attorneys. And I will not invade that province.

20 Q Do you think that even your opinion pertaining to
21 Ativan should be classified as a homicide?

22 A The answer to that is -- I will just say complex. I
23 have contemplated that issue at length. It -- if we have that
24 discussion, it would be the case that I would begin to express
25 my understanding or opinion about standard of care. Those are

1 my caveats. I will proceed to discuss it further if you wish.

2 Q Well, confining it to just manner of death, is it
3 your opinion that the administration of Ativan should be
4 classified -- in his death, if it's related to that, should be
5 classified as a homicide?

6 A If Ativan was the only issue, I probably would not
7 have classified it as a homicide. But I tell you: It is
8 severely problematic to administer a respiratory depressant to
9 an individual who has these -- this medical condition.
10 Assuredly metabolic acidosis, notwithstanding the absence of a
11 laboratory test; assuredly exhaustion, despite the difference
12 in descriptions of the individual.

13 It is severely problematic to administer a
14 respiratory depressant and then leave the patient in the
15 custody of an individual who, to the best of my knowledge, has
16 no formal medical or nursing training in anything, particularly
17 cardiac or pulmonary monitoring or physiology; has no
18 credentials at the facility; no continuing medical or nursing
19 education. That is severely problematic.

20 And because, I guess, I've spent so much time in
21 this, I understand that the question of acting recklessly, and
22 so as to endanger, might arise. However, notwithstanding my --
23 notwithstanding my understanding of the situation,
24 relinquishing this patient after administering a respiratory
25 depressant to a person with no training and no credentials, to

1 the best of my knowledge, that is problematic.

2 The question might arise, but I would not have
3 initiated a legal problem by causing merely the administration
4 of lorazepam, Ativan. Under those problematic circumstances, I
5 probably would not have called that a homicide, but I do
6 understand that it is severely problematic.

7 Q That gets into the standard-of-care issues that we
8 talked about earlier, right?

9 A And that's why I --

10 Q Okay.

11 A -- I indicated that. I've already agreed I'm not
12 gonna be admitted as an expert in standard of care, but that
13 I'm not ignorant of that standard of care nonetheless.

14 Q You're aware, from reading Dr. Barnhart's deposition,
15 that she did not link Mr. Goode's death to positional asphyxia
16 or the manner of restraint, right?

17 A While I don't remember her specific words, it is my
18 impression that she has specifically disputed that any aspect
19 of the hogtie caused death.

20 Q Did you read and consider the entirety of
21 Dr. Barnhart's deposition?

22 A I've read it multiple times --

23 Q Okay.

24 A -- and I have considered it at length. I -- I
25 understand that her opinion and my opinion at this time are

1 diametrically opposed. I don't believe I've ever met her. But
2 I understand that our opinions are diametrically opposed. And
3 I understand she made no mention whatsoever of lorazepam.

4 Nonetheless, I continue to assert that for what I
5 believe to be an excellent reason.

6 Q In your report, if you could locate it for me, there
7 is, on what I think is the next to the last page, a page that
8 begins with the heading "Opinions."

9 A Got it.

10 Q Do you see that?

11 A Yeah.

12 Q On this page, you cite some literature or other
13 sources, don't you?

14 A Yes.

15 Q Do you have all of these materials with you today
16 that you've cited on the next to the last page of your report?

17 A I didn't bring them all, but -- because some of them
18 are available on the Internet; they can easily be reached.

19 Others of them, actually -- the texts I actually
20 brought hard copies. But the references on the Internet, I did
21 not bring hard copies of those, but they're easily available to
22 everybody.

23 Q Okay. I have tried to retrieve what you cited, and I
24 don't have a clean copy to mark, but I'm happy to supply those
25 after today, if we need to.

1 A Okay.

2 Q Is the first citation, on the next to the last page
3 of your report, to an article titled "Sudden death during
4 restraint: do some positions affect lung function?"

5 A I recall this specific title, but I'll take a peek at
6 what you've got.

7 Q I'll just tell you that's the first citation in your
8 report.

9 MR. GASS: I'm sorry, what was the page,
10 Marty?

11 MR. PHILLIPS: It's the next to the last page of
12 the report.

13 MR. GASS: Okay, I'm there. Thanks.

14 THE WITNESS: I'm just gonna bring it
15 up on my smartphone.

16 MR. PHILLIPS: All right. Would you pass my
17 copy back, please?

18 THE WITNESS: I'm gonna compare it when I
19 punch it --

20 MR. PHILLILPS: Oh, okay.

21 THE WITNESS: -- up on the smartphone to
22 what you've got.

23 MR. PHILLIPS: Sure.

24 THE WITNESS: (Looking.)

25 MR. EDWARDS: Off the record.

1 (Discussion off record re Internet.)

2 MR. PHILLIPS: Okay. Well, let's go back on the
3 record.

4 Q (BY MR. PHILLIPS) Are you able to review that on the
5 Internet, the article here?

6 MR. GASS: What's the title of it?

7 MR. PHILLIPS: "Sudden death during restraint:
8 do some positions affect lung function?"

9 MR. EDWARDS: Is that PubMed.

10 THE WITNESS: PubMed.

11 MR. EDWARDS: It may only give you the --

12 THE WITNESS: This right now is just
13 giving me the abstract.

14 MR. PHILLIPS: The cite is 138 Med.Sci.
15 Law, Vol. 48, No. 2. Does that help?

16 THE WITNESS: I do have the abstract, but
17 it's just not giving me the entire article here.

18 MR. PHILLIPS: Okay. Well, let's go back
19 on the record. I think we can proceed.

20 Q (BY MR. PHILLIPS) Doctor, before we went off the
21 record, we were looking at the next to the last page of your
22 report, and the first citation on the page.

23 And I think that you have been able to confirm that
24 the first citation is to an article entitled "Sudden death
25 during restraint: do some positions affect lung function?"

1 And that is published at 138 Med.Sci. Law (2008) Vol 48, No. 2.

2 A Yes.

3 Q Is that right?

4 A That is correct.

5 Q Are the authors of this study medical doctors?

6 A This -- what I'm looking at is the abstract, and the
7 one article does not have the "MD" suffix after his name or her
8 name.

9 Q So the two listed do not appear MDs --

10 A Correct.

11 Q -- appear to be MDs, right?

12 A I agree.

13 Q And this is from the United Kingdom; is that right?
14 A study done in the United Kingdom?

15 A May I see your copy?

16 Q Coventry University?

17 A That's not on the abstract that I'm looking at, but
18 it may well be on the full copy that you have.

19 Q Okay. I will supply, after today, a clean copy of
20 this article. We'll mark it as Exhibit 2, so we'll have it in
21 the record since you've identified it for us.

22 A Yes.

23 MR. GASS: Actually, Doctor, if you'll
24 just hit the author information plus button.

25 A Coventry University, Priority Street, Coventry, UK.

1 Q (BY MR. PHILLIPS) So it's a study from the UK?

2 A Yes. Or an article from the UK.

3 Q Did this article measure blood pressure?

4 A I don't recall. And on my summary here, it doesn't
5 indicate.

6 Q Did it measure oxygen saturation level?

7 A On my copy, it doesn't -- on my abstract copy, that's
8 not indicated one way or another.

9 Q Did it measure heart rate?

10 A On my abstract copy, that's not indicated one way or
11 another. And I don't recall from memory.

12 Q Did it measure the patient's vital signs over time?

13 A Similarly, I don't recall from memory, and it's not
14 included on this abstract copy.

15 Q What was measured?

16 A Well, since I don't have the entire article, and I
17 don't recall it from memory, I'm unable to answer that question
18 at this time.

19 Q Well, if it is forced vital capacity, what is that,
20 if that's what's measured in the article?

21 A That is the capacity -- the volume that an individual
22 can expel it from their lungs.

23 Q That's measuring one puff of exhale?

24 A Yes.

25 Q And the reduction in function of forced vital

1 capacity, FVC, is listed at a mean of 23.8 percent?

2 A Yes.

3 Q Would that remaining unimpaired function still be
4 within the normal range?

5 A A 23-percent reduction would not in and of itself be
6 fatal.

7 Q My question was: Could one have a reduction of
8 approximately 23 percent and yet the function still be -- would
9 be within the normal range of function?

10 A And again I don't recall that from memory, and I
11 don't have the entire article in front of me.

12 Q Can a patient have some reduction in lung function
13 and still have lung function within the normal limits?

14 A Yes.

15 Q Can patients have some reduction in lung function and
16 it not be disabling or fatal to them?

17 A Yes.

18 Q Is there a difference between assessing whether there
19 is a statistical reduction in lung function and measuring
20 whether it has any clinical significance for a patient?

21 A Yes.

22 Q Do you recall what this article said about the
23 clinical significance?

24 A No, but I would be happy to review it.

25 Q I'm gonna cite the copy that I have, which will

1 become Exhibit 2. This is on Page 140. And I'll read you the
2 statement, and you're welcome to look at it if you need to.

3 It says: "We report statistically significant
4 reductions in measures of lung function for two restraint
5 positions: Position 4 and position 5. However, it remains
6 open to debate whether these constitute clinically significant
7 and potentially fatal restrictions."

8 A I would agree with that statement. I'm not reading
9 it with you, but I agree with that statement conceptually, yes.

10 Q So this article does not reach the conclusion that
11 the particular restraint results in a clinically significant
12 change in lung function or a potentially fatal change in lung
13 function, right?

14 A Not necessarily. That is correct.

15 Q The second source you cite on the next to the last
16 page of your opinion gives us a title. "Acute Excited States
17 And Sudden Death, Death After Restraint Can Be Avoided."

18 Do you see that one?

19 A I do.

20 Q Did you bring that source with you?

21 A I did not. It's available on the Internet, and I'm
22 punching it up now.

23 Q Thank you.

24 A I have that -- part of it in front of me.

25 Q Is that a Letter to the editor?

1 A Yes.

2 Q Published in the British Medical Journal?

3 A Yes.

4 Q Volume 316?

5 A Yes.

6 Q April 1998?

7 A Yes.

8 Q This is not a research study, is it?

9 A Correct.

10 Q This is not a peer-reviewed article?

11 A I agree.

12 Q This is a person's opinion from the UK, who chose to
13 write a letter to the editor, right?

14 A I agree.

15 Q It also does not reach the conclusion that the method
16 of restraint results in a clinically significant change in a
17 person's lung function, does it?

18 A It makes the statement: "Any person who is
19 restrained prone has trouble breathing...", but it does not
20 specify metrics of change in pulmonary function. I agree.

21 Q Okay. We'll mark a copy of this article as
22 Exhibit 3, and I'll supply that later as well. I said article.
23 It's actually a Letter to the editor as we agreed, right?

24 A We agree.

25 Q The next source you cite on the next to the last page

1 of your report is something entitled "Reducing the Risk
2 Associated With Use Of Restraints." Is that right?

3 A Correct.

4 Q That is in the next-to-last paragraph on the page
5 titled "Opinions"?

6 A I agree.

7 Q Can you retrieve that document, please?

8 A Yes.

9 Q Do you have it?

10 A I do.

11 Q Is it from a website --

12 A Yes.

13 Q -- called "corrections.com"?

14 A Yes.

15 Q What is that?

16 A It is obviously an opinion of an individual. This is
17 not a peer-reviewed journal article.

18 Q Is this person, who is espousing this opinion, a
19 medical doctor?

20 A No.

21 Q What is this person's training?

22 A I'm not aware of this person's training.

23 Q The person is Meghan Fay, listed as assistant editor?

24 A Yes.

25 Q And the publication date is July 27th of 2000?

1 A Correct.

2 Q Do you regularly read this source?

3 A No.

4 Q Is it reflective of any study that has been done to
5 determine -- to determine the effects of particular kinds of
6 restraint on lung function?

7 A While it is not in and of itself a study, and is not
8 a peer-reviewed article, as I've already stated to you, in the
9 published peer-reviewed forensic literature, there is -- it is
10 our training that this type of restraint is problematic. In
11 that sense, there are multiple individuals who reflect that
12 literature.

13 This in and of itself is not a peer-reviewed journal
14 article. If you ask, "Does it reflect opinions?" the answer
15 is, "Yeah, of course, it does." But is it in and of itself a
16 peer-reviewed controlled medical study? No, it is not. Does
17 it reflect opinions published in the peer-reviewed literature,
18 as I've already stated? Yes, it does.

19 Q This is not a source that forensic pathologists
20 normally read, is it?

21 A That is correct. It was my -- my intention to
22 demonstrate to you that, in addition to the peer-reviewed
23 published forensic literature, there is -- there are other
24 publications that reflect that literature that are commonly
25 available to the individual who may not be reading forensic

1 texts.

2 Q We'll mark a copy of this website statement as
3 Exhibit 4.

4 The other literature that you cite on the next to the
5 last page of your report is cited with regard to how the manner
6 of death should be classified, right?

7 A Correct.

8 Q Did you cite any other literature about whether the
9 hogtie position as you've called it, or the prone maximal
10 restraint position as others refer to it, leads to positional
11 asphyxia?

12 A In the -- in the sense that these are discussions of
13 restraint asphyxia -- I mean, that is the topic of these
14 discussions. And the reason they have opined that this is
15 death at the hands of another is because they believe that this
16 is death at the hands of another. And that --

17 Q You cited, in the section about the manner of death,
18 Dr. DiMaio's book, right?

19 A "Forensic Pathology," Second Edition (indicating).

20 Q You cited Dr. DiMaio?

21 A I did.

22 Q Are you familiar with his "Handbook of Forensic
23 Pathology," Second Edition?

24 A His "Handbook of Forensic Pathology." I have his
25 "Forensic Pathology," and I have his "Excited Delirium

1 Syndrome." I don't know that I have that text, no.

2 Q Okay. Here's the cover page of it. Does that look
3 familiar to you?

4 A I do not have that.

5 Q Is Dr. DiMaio's publication a reliable authority in
6 the field of forensic pathology?

7 A I'm not gonna recognize any of these texts as
8 authoritative because they don't agree on all topics. I will
9 recognize it as a learned treatise.

10 Q Is that true with the ones we've marked as exhibits
11 as well?

12 A Those other exhibits fall below the level of --
13 certainly the last one fell below the level of learned
14 treatise. And the Letter to the editor is just that. It's a
15 Letter to the editor. I do not recognize that as a learned
16 treatise. That is what it is; it's a Letter to the editor.

17 Q So Exhibits 3 and 4 don't qualify as learned
18 treatises, in your opinion?

19 A No.

20 Q How about Exhibit 2?

21 A What's that?

22 Q That's the first one we looked at, "Sudden death
23 during restraint..."

24 A That's a published article. It's peer-reviewed.
25 That has to be taken in the context of all peer-reviewed

1 published articles, and it has been peer-reviewed and
2 published.

3 It is obviously subject to correction in the future
4 if science -- the understanding of science changes, which it
5 always does.

6 So it's a published peer-reviewed journal article.
7 That's exactly what it is. And there are obvious caveats
8 associated with that. So I would not call that authoritative,
9 because even the author would agree it's subject to change.

10 Q Have you necessarily reached a conclusion in this
11 case that the manner in which Mr. Goode was restrained was
12 clinically significant?

13 A I believe that it was. I believe that it caused a
14 pulse oximetry reading of 90, and I've already opined that it
15 contributed significantly to his death, so much so that I've
16 also opined that its contribution to his death compels me to
17 make the diagnosis of manner of death as homicide because I
18 believe that this is death at the hands of another, and that
19 the mechanism of that hands of another is not a gunshot; it's
20 not a knife; it is restraint.

21 Q We looked at the passage together in Exhibit 2 that
22 said it was still open to debate whether these findings were
23 clinically significant and potentially fatal.

24 So you have reached the conclusion, with regard to
25 Mr. Goode, that the article you cite, Exhibit 2, has not

1 reached with regard to this position, right?

2 A In this case, I have the advantage of --

3 Q Is that right?

4 A I reached the conclusion in this case that they
5 didn't reach, because they know nothing about this case. This
6 is a case with a pulse oximetry reading of 90 percent, and this
7 is a case where a person is dead.

8 Q In the "Handbook of Forensic Pathology," Second
9 Edition, that Dr. DiMaio has --

10 A I have not read that.

11 Q Okay. Let me make reference to some statements, and
12 you tell me if you agree with them. This is on Page 169. It's
13 under the heading "Hogtying -- Positional/Restraint Asphyxia."

14 Letter D on Page 169 says: "Research by Chan et al.³
15 determined that the original experiments were in error. He
16 found that while placing an individual facedown in the hogtie
17 position following strenuous exercise, e.g., a struggle, did
18 not" (sic) "produce restrictive pulmonary functioning as
19 measured by a pulmonary function test, these results were not
20 clinically relevant. There was no evidence of hypoxia."

21 Do you agree with that statement?

22 A Yes, I do.

23 Q Is that at odds with the opinion you're expressing in
24 this case?

25 A Superficially, obviously, it's at odds. And perhaps

1 the answer, "I agree with that statement," is -- while indeed
2 that is a statement, I agree that both -- I agree with DiMaio's
3 interpretation of Chan's studies. So is that what Chan said?
4 Yes, it is. Is that at odds with my diagnosis? Yes, of
5 course, it is.

6 Q And so the conclusion that Chan reached, to which
7 Dr. DiMaio made reference, is at odds with your conclusion in
8 this case; is that right?

9 A If you believe Chan and -- this is my answer. You
10 want it or not?

11 Q Okay. Page 169 --

12 A Oh, so you don't want the answer? So continue.

13 Q Oh, I thought you were finished. Go ahead.

14 A I asked you a question, "Do you want the answer?"

15 Q I thought you just gave it to me.

16 A No, I asked you if you wanted my answer.

17 Q What question are you answering?

18 A The one you asked.

19 Q Okay.

20 A If you believe Chan --

21 Q Okay.

22 A -- that there's no compromise in respiratory
23 function, then the measured pulse oximetry in this case of 90
24 indicates, in no uncertain terms, that something was
25 perpetrated on this decedent in excess of the 50 pounds that

1 Chan cites in his studies.

2 One must conclude, if you believe Chan, that some
3 type of malevolent behavior occurred that caused a pulse
4 oximetry reading of 90 percent, which Chan does not anticipate
5 from applying even 50 pounds of pressure to a person in the
6 prone hogtie position. Now, I don't know that that malevolent
7 behavior occurred in excess of 50 pounds.

8 I also indicate to you that the time period that Chan
9 used in his studies is different than the time period that this
10 patient experienced before their death.

11 So that, while superficially you say, "You're at odds
12 with Chan," Chan's studies do not recapitulate all of the
13 circumstances of this case.

14 And if you believe Chan, that there should've been no
15 change in pulse oximetry, then you must conclude that some
16 malevolent behavior occurred in excess of putting 50 pounds of
17 pressure on the back of this person in a hogtie position.

18 I'm not prepared to assert that that malevolent
19 behavior occurred, but one must conclude it occurred if you
20 believe that Chan's studies are accurate. That's my answer.

21 Q We may have covered this earlier, but I want to be
22 sure I understand.

23 A Please.

24 Q From the materials you've read, you don't see any
25 evidence that any pressure was applied to Mr. Goode's back in

1 the emergency department, do you?

2 A Right. And that is why I prefaced my statement with:
3 If you believe Chan, then you must conclude that some type of
4 malevolent behavior occurred in excess of 50 pounds of pressure
5 on the back of a hogtied person.

6 But since there is no record of such malevolent
7 behavior, I'm not going to assume that it occurred. And one of
8 the reasons why I'm not compelled to make that conclusion was
9 that Chan didn't take a person out to the time period that this
10 patient experienced.

11 So I don't believe that anyone is compelled to
12 believe that malevolent behavior must have occurred in light of
13 the fact that Chan didn't take his experiments out that far.

14 So I'm not saying malevolent behavior occurred. But
15 if you believe that, if Chan had taken his experiments out that
16 far and gotten the same results, then I'm saying one must
17 conclude that some type of malevolent behavior in excess of
18 50 pounds on the back must have occurred.

19 Q Is it your contention that there was some pressure
20 put on Mr. Goode's back before he got to the emergency room?

21 A I have no record of that.

22 Q Okay.

23 A And in the videotapes, there's -- that I've seen, the
24 brief videotapes, there's no evidence of that.

25 Q In what we've marked -- or what we're going to mark

1 as Exhibit 4 --

2 MR. PHILLIPS: Is that what we're up to
3 now?

4 MR. GASS: 5, I think.

5 MR. PHILLIPS: 5, okay. That's the DiMaio book
6 from which I've been asking you questions.

7 THE WITNESS: Please continue.

8 MR. PHILLIPS: Yes, sir.

9 Q (BY MR. PHILLIPS) On Page 169, Part E, DiMaio
10 writes: "Subsequent tests in which weights were applied to the
11 thorax also did not produce clinically relevant decreases in
12 pulmonary functioning."

13 Do you agree with that statement?

14 A As I -- I also have restated that that is also my
15 interpretation of Chan's results. So, of course, I agree with
16 DiMaio's interpretation of Chan's experiments, because I also
17 restated that. And I actually specified up to 50 pounds.

18 Q And then the last sentence on Part E says: "Thus,
19 there is no proof that ordinary force placed on an individual
20 by kneeling on them or lying across their body compromises
21 respiration."

22 Do you agree with that statement?

23 A In -- as a summary of Chan's experiments, I agree
24 that is the summary.

25 But I also caution you that empirically the forensic

1 pathology community has indicated that it is reasonable to
2 diagnose restraint asphyxia in the setting of a hogtie.

3 As to whether pressure was applied or not, I do not
4 know. In this case, empirically I tell you there was a pulse
5 oximetry reading of 90 percent.

6 Q Is there some forensic text or journal that you have
7 available to you, outside of what you've cited here, that we've
8 already made reference to, that supports the idea that
9 position -- that the prone maximal restraint position leads to
10 clinically significant decrease in pulmonary function and
11 ventilation?

12 A Well, they certainly assert that it leads to death.
13 As to the mechanism of that death, you're asking: Do they
14 specifically cite change in pulmonary function?

15 They discuss that possibility, but I -- I don't
16 recall -- other than stating that, yes, it's associated with
17 death, I don't know that they specified the specific mechanism
18 by which the empiric observation that these individuals
19 frequently die -- I don't know that they cite the specific
20 with -- in a pedantic fashion, I don't know if they cite the
21 specific mechanism. But, of course, they cite the empiric
22 observation that these individuals frequently die.

23 Q Well, we've talked about the conclusions reached in
24 the Chan study --

25 A Yes.

1 Q -- a little bit now. Are you aware of any statement
2 in any of these forensic texts, that you brought with you, that
3 would dispute Chan's conclusion?

4 A Well, Chan did his study in response to contradictory
5 statements. I mean, that was the reason for doing the study.

6 So, while I don't remember the exact page, I mean
7 there's a reason he did the study, and that was in response to
8 specific statements to the effect that pulmonary function is
9 compromised.

10 And certainly individuals have cited the hogtie
11 position and the prone position as restricting pulmonary
12 function, and that was the reason for these experiments.

13 But, as I've said, you know, to an extent these
14 experiments apply; but to an extent he really didn't take them
15 out to the time period that this person experienced.

16 Q Here's what I --

17 A And empirically this person does have hypoxia.

18 Q Here's what I'm trying to determine, Dr. Arnall.

19 A Please.

20 Q Okay. I want to know if there is any statement in
21 these books, that you have on the table with you, that would be
22 at odds with the statements we've read from Chan's study and
23 from Dr. DiMaio's book about whether the prone maximal
24 restraint position leads to clinically significant decrease in
25 pulmonary function. And if so, I'd like you to open the book

1 and show me the statements.

2 A I don't recall any specific statement about pulmonary
3 function. They clearly indicate that death is associated with
4 this, but I don't recall that they specify pulmonary function
5 as the mechanism.

6 Although, many of the texts speak to the issue that,
7 you know, obesity is associated with individuals in a hogtie
8 position, in particular associated with excited delirium. And
9 they specify that, in individuals who are obese and have
10 excited delirium in a hogtie position, it is that obesity
11 pressing against the diaphragms which restricts pulmonary
12 function.

13 And I can -- I can try to find that reference. I
14 mean, I can go ahead and try to find that reference if you wish
15 about obesity and excited delirium and hogtie and restriction
16 of pulmonary function. (Looking.)

17 Reading Page 309 of "Forensic Pathology, Principles
18 and Practice" by David Dolinak. The copyright is 2005. Under
19 a chapter entitled "Hog-tying" (sic) -- I'm just gonna excerpt
20 it. Obviously, you're welcome to read the context of the
21 statement.

22 "Hog-tying" (sic). "During or shortly after the
23 restraining process, the subject may rarely develop difficulty
24 breathing or may be found unresponsive."

25 So there's a reference to breathing. I interpret

1 breathing as pulmonary function.

2 Q Would you agree with me that to say that a person
3 died while in restraint is not necessarily to say that a person
4 died because of the restraint?

5 A I agree. I agree with that statement.

6 Q Isn't Dr. Dolinak really telling us that some people
7 have died while restrained?

8 A Yes.

9 Q Okay. I wanna mark that expert from the Dolinak text
10 as Exhibit 6.

11 Is there any other statement from any other textbook
12 that you think would support your opinion in this case?

13 A Let me read one more sentence --

14 Q Please.

15 A -- that perhaps would be helpful to our discussion.

16 Q Please.

17 A "Quite often these deaths are not solely asphyxial in
18 that nature, but rather, there is an interplay between varying
19 degrees of asphyxia with heart disease, sympathomimetic drug
20 abuse, and the body's physiologic response to stress and
21 exertion."

22 And he goes on, in the last, an admonition. "During
23 patient transport by a" medical -- "emergency medical services,
24 the supine or lateral body position is encouraged rather than
25 the prone position to limit the possible deleterious effects

1 that mechanical/positional asphyxia may have on respiration."

2 I believe that directly addresses the issue you've
3 raised. And there's even an admonition to medical personnel,
4 "Don't do this."

5 Q Is there any statement to which you need to refer us
6 in any of the other texts you've brought?

7 A I'll look. And, again, that's one excerpt. You
8 know, I haven't gone back through the entire text. I found
9 that in 30 seconds.

10 Q Had you looked at that text before today to see if it
11 addressed the topic we're discussing today?

12 A Yes. And I -- there are multiple passages in the
13 textbook which may touch upon issues relevant to this
14 discussion, and that's why I brought it.

15 MR. GASS: Do you remember the page --

16 THE WITNESS: 309.

17 MR. GASS: -- that you were reading from?

18 THE WITNESS: 309.

19 MR. GASS: Thank you.

20 MR. PHILLIPS: That's not the one he read from.

21 THE WITNESS: This one here.

22 MR. GASS: Oh.

23 A Harrison's textbook merely states that no one has
24 died of LSD. (Looking.) I'm looking at "Medicolegal
25 Investigation of Death," Spitz and Fisher, 4th Edition, Page

1 832.

2 "An overweight individual, with a body mass
3 index...in excess of 30...is especially susceptible for
4 respiratory arrest when held this way due to protuberance of
5 the anterior abdominal wall, which upon compression causes
6 upward displacement of the abdominal organs and interference
7 with the movements of the diaphragm."

8 And this is the third paragraph under the topic of --
9 and I'll read the -- the first sentence of Paragraph 3 above
10 it. "The *hogtie restraint position*, also known as the *hobble*
11 *or prone restraint*, is a type of restraint, often used by
12 police, where the victim is face down on the ground, i.e.,
13 prone, handcuffed behind his back, ankles tied and the wrist
14 and ankle bindings are then tied together."

15 Q Let's make a copy -- let's make a copy of those
16 pages, to which you just made reference to in the Spitz and
17 Fisher text, Exhibit 7.

18 Go ahead if you need to tell me something else.

19 A The last paragraph in the first column of Page
20 132 (sic) --

21 Q Is it Page 132, Doctor?

22 A I'm sorry, 832. 832. This cites studies by Neuman,
23 which dispute an earlier paragraph, where he says *hogtie*
24 *restraint position*, this method of restraint did not cause
25 clinically relevant impairment of ventilation.

1 Q That statement would be at odds with your conclusion
2 in this case, wouldn't it?

3 A It would be at odds with the paragraph -- three
4 paragraphs before.

5 Q And at odds with the conclusion you reached in this
6 case?

7 A It would be at odds with the empirically-derived
8 pulse oximetry reading of 90 percent.

9 Q Would it be at odds with your conclusion?

10 A Yes.

11 Q Okay. Did Mr. Goode have a body mass index greater
12 than 30?

13 A No.

14 Q So he would not fit the category of risks described
15 in that text, would he?

16 A For respiratory compromise, no. However, body mass
17 index is -- would not be an issue in discussing his metabolic
18 acidosis due to straining against the restraints, what I
19 referred to as a type of isometric exercise.

20 Q Is there anything else you need to tell me about from
21 the Spitzer (sic) text, or are we completed?

22 A Well, I'll continue reading. I mean, again, I
23 haven't memorized this text in its entirety. But I think
24 you'll begin to understand that all of these texts refer to the
25 hogtie restraint and specify that it has been associated with

1 deaths.

2 And they -- you and I have already agreed that there
3 is a discussion into the -- in the literature, a discussion
4 that is frequently contradictory, as to the specific mechanism
5 by which this restraint is associated with so many deaths.

6 So I agree there is discussion in this textbook. I
7 pointed out that, even in the same column, there's a discussion
8 of the fact that, as you and I have discussed, there is debate
9 between physicians as to just how so many people die in the
10 hogtie-restraint position.

11 So I agree that there is discussion and disagreement
12 as to the specific methodology, but every one of these
13 textbooks addresses the issue of deaths in the hogtie position
14 because it happens so often.

15 Q Is there any other textbook that has a statement you
16 need to make reference to?

17 A Even the existence of the text by Chan and Vilke --
18 even its existence indicates that there is a reason to discuss
19 the mechanism of death in so many hogtie-restraint-associated
20 deaths.

21 Q You're talking about the one entitled "Sudden Deaths
22 in Custody"?

23 A I am.

24 Q Is there any portion of that text that supports your
25 opinion in this case?

1 A You know, I -- obviously, I -- I can read through it.
2 I haven't memorized it sentence-by-sentence. I'm just saying:
3 If the issue of hogtie-restraint deaths didn't exist, the
4 textbook wouldn't exist.

5 I'm now looking at this DiMaio-DiMaio, "Excited
6 Delirium..." text. As we have discussed, there are many
7 citations where DiMaio disputes the respiratory contribution to
8 death in a hogtie position. Obviously, he does. So there's no
9 point in disputing that he doesn't, 'cause he does.

10 I would admonish you that -- for instance, on Page
11 126 of "Excited Delirium Syndrome," the author states: "The
12 authors of this book have concluded that the *single most*
13 *important factor* that determines if individuals experiencing
14 excited delirium die is the violent physical exertion inherent
15 in the *struggle*. This is true whether the excited delirium is
16 due to drugs, mental illness, or a combination of both.
17 Placing an individual in the *prone position* is not a critical
18 element for most excited delirium syndrome deaths."

19 They go on to say: "After restraining the patient"
20 -- this is the next paragraph. "After restraining the patient,
21 continual assessment of the individual's level of consciousness
22 and breathing should be maintained with 'face-to-face'
23 observation by one member of the team. One should monitor the
24 vital signs for signs of cardiac irregularities."

25 They actually recommend lorazepam in this text.

1 Q And is that Ativan?

2 A Yes. Then they go on to say: "The patient should be
3 maintained in a sitting position for maximum breathing
4 ability."

5 In responding to individuals who contest the
6 respiratory contribution, why would you make this admonition to
7 healthcare-givers if it wasn't relevant? You understand the
8 inherent contradiction?

9 Why would you admonish them to have the person in a
10 particular position for breathing if position of breathing was
11 irrelevant? It's an obvious contradiction in logic.

12 Obviously, why would you require continuous
13 monitoring by a member of the team? They're not talking about
14 a football team. They're talking about a medical team. Why
15 would they have that admonition if it wasn't relevant?

16 So you are correct. There are multiple references in
17 this text that state breathing is not important; respiratory
18 function is not compromised. And, yet, within the same text,
19 there are specific admonitions that clearly indicate that
20 breathing and continuing monitoring is critical.

21 So I make the concession you're right; that's what
22 they say. And, yet, when you read it, it makes no sense they
23 would -- they would have these conclusions.

24 And again, you know, I've taken three or four minutes
25 to briefly read through a couple of paragraphs. But I think

1 you understand that a forensic pathologist, in reading all of
2 this over the course of 30 years, is going to get a general
3 impression: Wait a second, a lot of people die in a hogtie
4 position. They've written books about it. Yeah, they're
5 arguing about it and the specific mechanism, but it does occur.

6 In this particular case, while we can argue about the
7 theoretical aspects of the hogtying position, you have an
8 empiric observation of a pulse oximetry reading of 90 percent.

9 He says most of the time it's not relevant. But, in
10 this case, empirically you have a -- not a partial pressure of
11 oxygen, but a pulse oximetry that indicates that respiratory
12 compromise is important.

13 Also, I specifically read to you the physician's
14 diagnosis, and that was respiratory distress.

15 Q That was the diagnosis at the time of the code,
16 though, right?

17 A That is correct.

18 Q Let's make as Exhibit 8 the excerpts from the
19 "Excited Delirium..." text to which you just made reference.

20 A And I think I told you the page.

21 Q You did, I think, yes.

22 MR. GASS: Can you give it to me again and give
23 me the book, so I can --

24 A 126. And again I'm not saying there aren't other
25 references, but I think I've given you a sense or flavor of the

1 fact that these texts obviously do accept that people die in
2 this position, and that indeed is the etiology for the
3 discussion of a point. If those deaths didn't occur, we
4 wouldn't be arguing about it.

5 Q (BY MR. PHILLIPS) Is excited delirium a diagnosis
6 that you recognize as a forensic pathologist?

7 A I do recognize that diagnosis. I do, yes.

8 Q Is it commonly accepted among forensic pathologists?

9 A The issue of semantics. What's the definition of
10 "common"? I will say everyone understands -- all forensic
11 pathologists have both read about and heard discussions of
12 excited delirium in our national meetings. So it's a common
13 topic. You know, it's not an orphan topic. It's a common
14 topic.

15 I think all of us who have worked in a big city have
16 seen cases that cause us to place that diagnosis in the
17 differential diagnosis of a death of a specific patient.

18 Q Have you ever concluded that a particular patient
19 died from excited delirium?

20 A I've done about 4,000 autopsies. I don't recall that
21 I made that diagnosis, but I assure you I have considered it on
22 multiple occasions.

23 Q Has it been in your differential on multiple
24 occasions?

25 A Right. When I say consider it, that means it's been

1 in my differential diagnosis. I knew it was something that I
2 was required to contemplate.

3 Q Is Mr. Goode's death consistent with an excited
4 delirium syndrome?

5 A "Consistent with" is the term that physicians use as
6 the least statistically significant. So that when I use the
7 word -- you know, the phrase "consistent with," you know, it
8 has almost no causal -- no statistically significant meaning.

9 I have told you that he clearly was excited. A
10 person would say, "Well, he was delirious." But is this an
11 excited delirium death? I would say, "No." And I would cite
12 for you the specific factors that I consider when I consider
13 excited delirium.

14 I look to the issue: Is this person obese? And some
15 of the articles have cited, "Well, these people average
16 220 pounds." Others use, you know, BMI. But individuals in
17 excited delirium deaths are significantly obese. Individuals
18 in excited delirium deaths frequently are hyper, H-Y-P-E-R,
19 hyperthermic. They have a fever.

20 And one of the -- one of the articles says, "Well,
21 they average 104 degrees Fahrenheit." So some of the -- some
22 of the authors cite a specific temperature on average. Others
23 just say, "Well, they're hyperthermic."

24 Other individuals cite cardiomegaly. Some will say,
25 "Well, on average, in the cases we looked at, the -- the weight

1 was in the 400-gram range." Normal weight being 250 to
2 350 grams.

3 In this case, this person is not obese, does not have
4 an elevated basil BMI. This person was not hyper, H-Y-P-E-R,
5 thermic. Actually, he was a little bit below. He was 98.2
6 instead of 98.6. This person does not have underlying heart
7 disease and certainly did not have cardiomegaly.

8 And last, but not least, you know, as we've talked
9 about, fundamental to the discussion of excited delirium is, as
10 you ostensibly pointed out, they're not hypoxic. In this case,
11 we have documentation of hypoxia that is on the cusp of a
12 requirement to treat with oxygen. It is of non-trivial
13 hypoxia.

14 So that, for instance, you know, if this was a -- an
15 LSD-related death due to excited delirium, as near as I can
16 tell, it'd be the first case in recorded history. All of us
17 involved in this case -- all of the physicians would be rushing
18 to publish it.

19 Except to publish it, we'd have to go through a
20 peer-review panel. And a peer-review panel would say: "Well,
21 wait a second. Excited delirium, thank you very much. What
22 about our obesity? What about our heart disease? What about,
23 you know, no hypoxia? What about hyperthermia?"

24 It's unclear this would pass the scrutiny of a
25 peer-reviewed panel. Because all of the other associated

1 criteria, which is what I look at when I look at a patient, the
2 excited delirium being in the differential diagnosis, the peer
3 review is gonna look for the same criteria that I look at.

4 Q Are there any symptoms or signs that Mr. Goode had
5 that are consistent with excited delirium?

6 A He was excited, and he was delirious. So the answer
7 to that question is "Yes," he clearly was excited; he clearly
8 was delirious. The statement, "I don't know how to explode."
9 Of course, that's a person who is talking in a completely
10 irrational fashion. So that is a -- a -- both a -- a sign and
11 a symptom.

12 Q What else?

13 A I am aware that Vilke has cited Karch as saying that
14 LSD was associated with excited delirium, but I would be quick
15 to show you Karch's textbook saying that no one's ever died due
16 to LSD. So, as far as an excited delirium death, even Karch
17 says not happened.

18 Q Are you aware of literature that has associated LSD
19 with excited delirium?

20 A That's Vilke's reference to Karch.

21 Q Okay.

22 A He cites Karch's two studies in the '90s, but this
23 textbook by Karch is written in 2002. And Karch -- I'm looking
24 at Karch's "Pathology of Drug Abuse," 3rd Edition. I'm looking
25 at Page 309, second paragraph, and the paragraph has actually a

1 numeric 4.5.4.1.4.

2 "No LSD related deaths were listed in the Medical
3 Examiner component of the most recent DAWN report (Kissin,"
4 K-I-S-S-I-N, "and Garfield, 2000)."

5 Q We'll mark that excerpt as Exhibit 9.

6 A So even subsequent to his references as excited
7 delirium might be associated with LSD, in a subsequent
8 publication by the same author, he cites a reference that
9 indicates that no LSD-related deaths have ever occurred. I
10 think that's relevant to your question.

11 Q Is there any other forensic pathology texts that you
12 plan to cite that you contend supports your opinion or is
13 relevant to your opinion, other than those you've already
14 talked to us about today?

15 A I have no plan on citing any others.

16 Q Okay. Do you recognize the "Sudden Deaths in
17 Custody" text as being a learned treatise?

18 A I do.

19 MR. EDWARDS: Is that the one by Ross and Chan?

20 MR. PHILLIPS: Yes, he cited it earlier.

21 MR. EDWARDS: Okay. Just making sure we had --

22 A I do recognize it as a learned treatise.

23 Q (BY MR. PHILLIPS) And you're aware that there's a
24 chapter in that text on positional and restraint asphyxia and a
25 chapter on excited delirium?

1 A Yes, I do.

2 Q Are you aware of other studies in the field of
3 forensic pathology that have addressed the issue of the prone
4 maximal restraint position and whether it results in asphyxia,
5 positional asphyxia?

6 A Of course, there are additional studies. I haven't
7 memorized them all, but I think I've given you a flavor that
8 numerous -- a flavor for the fact that numerous individuals
9 have attempted to address this issue with controlled studies.
10 And as we both agree, there is significant debate on the topic.

11 Q On the topic of whether the prone maximal restraint
12 position results in positional asphyxia?

13 A Yes.

14 Q Are there reasonable pathologists who conclude that
15 it does not?

16 A The answer is "Yes."

17 MR. EDWARDS: Object to the form of the
18 question. What's a reasonable pathologist?

19 A There are individuals who are regularly employed as
20 board-certified forensic pathologists. And we've even
21 discussed the fact that Dr. Barnhart, who is regularly
22 employed, is board-certified, has stated that positional
23 asphyxia did not contribute to this death. I'm aware of that,
24 yes.

25 Q (BY MR. PHILLIPS) Are you familiar with the

1 "American Journal of Forensic Medicine and Pathology"?

2 A Yes.

3 Q Who publishes that journal?

4 A Is that the orange journal published by NAME? I --
5 you know, obviously I subscribe to them. NAME -- NAME is
6 one --

7 THE REPORTER: I'm sorry?

8 A NAME, the National Association of Medical Examiners,
9 is associated with the publication of one. And I don't
10 remember whether that specifically is NAME-published but -- or
11 published by Elsevier. I don't recall.

12 Q (BY MR. PHILLIPS) Is the "American Journal of
13 Forensic Medicine and Pathology" one that you read --

14 A I do.

15 Q -- and rely upon?

16 A I do.

17 Q You consider it a learned treatise?

18 A I do.

19 Q It's peer-reviewed?

20 A Yes, it is.

21 Q Are you familiar with the article from that journal
22 entitled "Reexamination of custody restraint position and
23 positional asphyxia," from 1997, by Chan, Vilke, and Neuman?

24 A I don't recall it specifically, but obviously I'm
25 happy to look at a specific passage, if you wish.

1 Q If it states, "We conclude that the hogtie restraint
2 position by itself does not cause respiratory compromise to the
3 point of asphyxiation and that other factors are responsible
4 for the sudden deaths of individuals placed in this position,"
5 do you agree with that statement?

6 A I believe my report specifically cites just such a
7 phenomenon, and that is when I cite the metabolic acidosis
8 associated with struggle against the restraints.

9 So I believe anyone who has listened to this
10 discourse this morning would understand that even I have cited
11 other physiologic issues which contribute to the problem.

12 Q Aside from the restraint?

13 A Aside from the ventilatory compromise.

14 Q Okay.

15 A But both the ventilatory compromise, which I believe
16 is what that sentence refers to, as well as the metabolic
17 acidosis, as I believe I have stated in my report, contribute
18 to the problem.

19 Although, in this particular case, there is another
20 third independent issue, and that is the administration of a
21 respiratory depressant, lorazepam.

22 Q Do you recognize the "Journal of Forensic Science" as
23 a learned treatise?

24 A I do.

25 Q Is it peer-reviewed?

1 A Yes.

2 Q Is it one that you normally read and rely upon?

3 A I do.

4 Q Are you familiar with the article published in
5 January of 2007, in that journal, entitled "Ventilatory and
6 Metabolic Demands During Aggressive Physical Restraint in
7 Healthy Adults"?

8 A I don't recall it specifically. I likely have read
9 it. I'd be happy to respond to it, a passage in it.

10 MR. EDWARDS: Who is the author, please?

11 MR. PHILLIPS: Is it Michaelwicz, the lead
12 author? Does that sound right? M-I-C-H-A-E-L-W-I-C-Z. And,
13 for the record, it was Exhibit 6 to Dr. Wecht's deposition.

14 MR. EDWARDS: Okay.

15 Q (BY MR. PHILLIPS) If that article concludes as
16 follows, "Based upon these observations in healthy subjects, we
17 conclude that the PMRP," the prone maximum restraint position,
18 "and prone positioning with moderate weight force on the back
19 do not in and of themselves restrict metabolic or ventilatory
20 demands to any clinically important degree," do you agree with
21 that statement?

22 A Read it again, please.

23 Q "Based upon these observations in healthy subjects,
24 we conclude that PMRP and prone positioning with moderate
25 weight force on the back do not in and of themselves restrict

1 metabolic or ventilatory demands to any clinically important
2 degree."

3 MR. EDWARDS: Object to the form of the
4 question. That gives no background as to what the experiments
5 consisted of, how long they were conducted, or anything else.

6 Q (BY MR. PHILLIPS) Do you agree with that statement I
7 read?

8 A And, again, before I'd agree with the statement, I
9 probably should review exactly what they're speaking to, you
10 know, the specifics of what they've summarized.

11 And I would reiterate my admonition that, if such a
12 treatment (sic) was true -- if such a statement was true, then
13 the pulse oximetry of -- a reading of 90 could only be
14 interpreted as evidence of some other malevolent behavior, in
15 excess of what they did during that experiment, had occurred to
16 this decedent.

17 I'm not prepared to make that assertion, that there's
18 other malevolent behavior. But I have to make that conclusion
19 if I believed unequivocally that the hogtie position had no
20 significant effect on either respiration or metabolic
21 condition.

22 And I've already stated to you that I am comfortable
23 that this patient did have metabolic acidosis based on his
24 struggle against the restraint. And I say that in the context
25 of all of the other discussions of individuals who are

1 undergoing isometric strength against those restraints.

2 So I understand what they have said, but you
3 understand my concerns with that statement?

4 Q Okay. Are you able to tell me whether you agree or
5 disagree with the statement I read?

6 A Well, I don't agree with it obviously in its entirety
7 for the reasons I've just explained to you --

8 Q But this does --

9 A -- and the particulars as applies to this patient.

10 Q This does take into account metabolic demands
11 according to the statement I read, right?

12 A I understand that. And I -- in no sense do I believe
13 that this person struggled against those restraints for that
14 period of time and experienced no metabolic acidosis. I don't
15 believe that at all.

16 Q Are you familiar with the "Journal of Forensic and
17 Legal Medicine"?

18 A Yes.

19 Q Is it a learned treatise?

20 A It is, but I don't read that all time. But I am
21 aware of it.

22 Q It is literature within the field of forensic
23 pathology, though?

24 A I agree.

25 Q Are you familiar with the article from 2013, "The

1 effect of prone maximal restraint position with and without
2 weight force on cardiac output and other hemodynamic measures"?

3 A I believe I've read it, but I don't -- I haven't
4 memorized it. So, if you wish to cite a specific passage, I'd
5 be happy to discuss it.

6 Q Your contention is that the position impacted
7 respiratory status, not cardiac status, right?

8 A It's obviously difficult to discuss respiratory
9 function without discussing cardiac function. Having said
10 that, I don't believe that the prone position compromises
11 cardiac output.

12 Q Okay.

13 A So I -- I agree -- I agree with that part of it.

14 Q Okay.

15 A But I also caution you that, as pulmonary function is
16 compromised, one must contemplate the response of the cardiac
17 muscle. And, in particular, since I've already stated that
18 this person had a metabolic acidosis, although I freely admit
19 that there's no laboratory tests that confirms that, one has to
20 contemplate that in terms of cardiac function.

21 But I don't believe the prone position in and of
22 itself compresses the heart to the extent that it reduces
23 cardiac output. I agree with that.

24 Q Are you familiar with the "Forensic Science
25 International" publication?

1 A I am.

2 Q Is that a learned treatise, in your view?

3 A Yes.

4 Q Peer-reviewed?

5 A Yes.

6 Q One you regularly review?

7 A I've reviewed it many times.

8 Q You -- you have, I think, freely acknowledged that
9 there are publications in the medical literature, specifically
10 in your field of forensic pathology, that disagree with the
11 conclusion you're reaching in this case, right?

12 A The reason I don't agree with your particular
13 statement, and this is semantics, is that, as I've stated to
14 you, many of these experiments do not extend to the time period
15 that this person experienced.

16 So, while they are relevant, they do not specifically
17 recapitulate this situation. So that I contest your statement
18 that they dispute my opinion because they don't address the
19 specifics of this case.

20 Also, I've specifically identified the fact that we
21 have an empirically-derived metric, the pulse oximetry, which
22 would indicate that none of these studies are relevant to this
23 case because they -- all the studies indicate no compromise in
24 pulmonary function.

25 And our discussion has been: Well, this -- what

1 happened to this gentleman didn't compromise pulmonary
2 function. And I know I've reiterated, to the point of being
3 irritating, that empirically it already did. It's too late to
4 discuss the fact that it might not have, because it did. And
5 we have an empirically-derived measurement to that effect.

6 So that, when I say it doesn't specifically contest
7 my opinion, you know, either the experiments didn't go out to
8 the time period that they did, or the experiments specifically
9 state that there's no pulmonary compromise, and that
10 specifically doesn't address this patient.

11 Q There are published studies, though, that reach
12 conclusions that are different than the bases you're using to
13 reach your opinions, though, right?

14 A I agree with that statement.

15 Q Okay. In your report -- and, again, the pages aren't
16 numbered, but let me try and locate it. I think it's Page 5.
17 There's a statement just above the heading that says the
18 "Baptist Medical Records." I'll give you a minute to catch up
19 with me.

20 A Got it.

21 Q In the last paragraph above that, it cites the
22 National Institute of Health.

23 A NIH.

24 Q Do you have some publication from the National
25 Institute of Health?

1 A I would have to go back to my notes to see where I
2 derived that.

3 Q Well, the reason I asked the question, Doctor, is:
4 When I get to the "Opinions" page, and I see the citations, I
5 didn't see anything cited from the National Institute of
6 Health. And we've gone through your articles, and I don't
7 think we had anything from the National Institute of Health.

8 A And, again, I will have to go back. I didn't make a
9 specific citation there. I'll have to go back and determine
10 where I derived that specific statement.

11 Q You don't have that literature among the materials
12 you brought with you today, do you?

13 A No.

14 Q And it's not cited in your report in the "Opinions"
15 section, is it?

16 A I don't have a citation on that paragraph; that is
17 correct.

18 Q If there is some publication from the National
19 Institute of Health that you have reviewed and rely upon in
20 this case, I'd ask you to provide that to Mr. Edwards, and
21 we're gonna mark it as late filed Exhibit 10, okay?

22 A Fair enough.

23 Q And if there is not one, just let Mr. Edwards know
24 that there's not one, and he can advise us accordingly.

25 A I will do so.

1 MR. PHILLIPS: Let's take another timeout. How
2 about it?

3 (Recess taken at 11:57 a.m. and back in
4 session at 12:10 p.m.)

5 MR. PHILLIPS: We'll go back on the record.

6 Q (BY MR. PHILLIPS) Did you review and consider the
7 articles cited by Dr. Vilke in his report?

8 A Which article? I received two articles in my
9 package. I received "Excited Delirium Syndrome," defined --
10 "Defining Based On A Review Of The Literature." And I also
11 received "Excited delirium syndrome...Redefining an old
12 diagnosis."

13 Q Did you read and consider both of those articles?

14 A I have read them at length, yes.

15 Q Okay. Do you agree with the articles?

16 A In what sense?

17 Q Well, is there anything that the article advances
18 that you reject?

19 MR. EDWARDS: Well, I object to the form.
20 That's not -- you know, that will require combing through it.

21 A (Reading.) As an example, you may call it
22 disagreement, or just maybe I, you know, think that they worded
23 it awkwardly. Here's a sentence, Page 8, Column 2,
24 paragraph -- about Paragraph 4. "Autopsies, which did not
25 include histochemical or neurochemical examination, did not

1 reveal a definite cause of death, although trauma and natural
2 disease were excluded." And this is referring to obviously
3 these excited delirium syndromes.

4 If you read Karch, which they obviously have referred
5 to, you know that many of these cases are current in the
6 context of cocaine, obviously.

7 Most cocaine users, if you look closely at the heart,
8 as Karch has outlined in his text, are going to have either a
9 degree of cardiomegaly and/or interstitial fibrosis of the
10 myocardium. It's quite common with cocaine.

11 So that -- and, in particular, since we've already
12 discussed the fact -- and obviously it's widely accepted that
13 excited delirium deaths are associated with obesity and
14 enlarged hearts. To say that there's no natural disease
15 like -- I'm sorry, but that -- that disputes, you know, all of
16 the other literature if you're meaning any natural disease.

17 If you're meaning, you know, sufficient natural
18 disease caused death, well, I think that's probably what they
19 meant to say. But the way they said it is awkward, and it's
20 patently false. But I don't think they meant it to be a
21 contradiction of all of those observations. It's just, you
22 know, appallingly poorly worded.

23 When they say trauma has been excluded, in those
24 individuals who had the maximal restraint, it doesn't take a
25 pathologist to say, "Well, wait a second. Whether they call it

1 hogtying or maximal restraint, that's a traumatic process, and
2 it's a traumatic process that's manifest with obvious
3 physiologic changes, metabolic acidosis."

4 Anyone who's done isometric exercises for 90
5 minutes -- I played rugby for 80, and we actually had rest
6 periods in rugby. You come out completely exhausted with leg
7 cramps, obviously a manifestation of metabolic acidosis.

8 So, as we go through these articles, there are
9 obviously sentences which, you know, if you're cynical, you'd
10 say they're patently false. But I think it's fair to say,
11 "Well, they weren't meant in an awkward fashion, and perhaps
12 they didn't mean to say exactly what it appears as though
13 they're saying."

14 So, you know, are there gonna be aspects in here they
15 disagree with? Yeah, that everybody is gonna -- can reasonably
16 disagree with. And even they would say, "Oh, that was poorly
17 worded, and even we disagree with that -- a statement like
18 that."

19 If you want me to go through every little sentence, I
20 can do that. But you understand I'm not going to -- to agree
21 with these in their entirety.

22 Q Okay. Let's mark the first excited delirium article
23 as Exhibit 11.

24 MR. EDWARDS: Which one is that?

25 MR. PHILLIPS: Tell us the citation, Doctor.

1 MR. EDWARDS: Which journal?

2 THE WITNESS: "Journal of Forensic and
3 Legal Medicine."

4 MR. EDWARDS: Got it.

5 THE WITNESS: 19 (2012), Pages 7-11.

6 MR. PHILLIPS: That will be Exhibit 11. And
7 what is the second article.

8 THE WITNESS: Clinical Reviews. I think
9 this is "The Journal of Emergency Medicine," Vol. 43, No. 5,
10 Page 897.

11 MR. PHILLIPS: That will be Exhibit 12.

12 Q (BY MR. PHILLIPS) Other than Exhibit 11 and 12, did
13 you consider any of the other articles cited by Dr. Vilke in
14 his report?

15 A He talked about LSD being associated with excited
16 delirium. I didn't look up the two articles that he referred
17 to, but I went ahead and looked at Karch's book, which is a
18 subsequent publication, in order to decipher: "Did Karch
19 actually believe that anyone on LSD had ever died of excited
20 delirium?"

21 And while he doesn't make that specific statement,
22 the fact that he cites the fact that no one's ever died of LSD,
23 I'm going to interpret that so as to mean that while he --
24 while Vilke has asserted that he's associated LSD with excited
25 delirium on a subsequent publication a few years later, and I

1 doubt that he forgot his initial publication used earlier, he
2 specifically cites that no one's ever died as a consequence of
3 LSD. So I'm going to interpret that so as to mean that, you
4 know, while I didn't read the article, they may have had
5 excited delirium due to LSD, but apparently they didn't die.

6 Q Let me ask for your help. If you could try and focus
7 on my question and answer, I'd like to get us out of here
8 expeditiously.

9 My question simply is: Did you review any of the
10 other articles cited by Dr. Vilke, other than the ones we've
11 marked as Exhibit 11 or 12? Yes, you did; or, no, you didn't.

12 A Not that I know of.

13 Q All right. Thank you.

14 A Although, you know, I didn't read every article -- I
15 didn't read all of the citations. And it may well be the case
16 that I accidentally read one of them, and now I told you that I
17 haven't reviewed them, but I haven't reviewed them in the
18 context of this case.

19 Q Got it. When you did your report, why didn't you
20 state that there was debate among forensic pathologists about
21 whether the prone maximal restraint position led to positional
22 asphyxia?

23 A For all the reasons we've discussed during this
24 deposition.

25 Q Why didn't you make any reference to debate or

1 controversies in the medical literature in your report?

2 A What is the sentence that you just cited?

3 Q I haven't cited a sentence. I'm just asking you why
4 you didn't point out in your report some of the things you've
5 pointed out today, which there are those who've reached
6 differing conclusions on this topic?

7 A This is an expression of my opinion. It is
8 intuitive to obviously a casual observer, because this is
9 subject to litigation, there's going to be divergent opinions.

10 Q Have you done any testing or research regarding prone
11 maximal restraint position?

12 A No.

13 Q Or positional asphyxia?

14 A No.

15 Q Have you done any testing on that topic?

16 A No.

17 Q Done any lecturing on that topic?

18 A I do lecture at the local college and have lectured
19 to the University of Colorado medical students, and -- although
20 I don't do it now, and have spoken at the Colorado Coroners
21 Association.

22 Although, at the Coroners Association, I don't recall
23 speaking on restraint asphyxia. But in other lectures it's
24 certainly one of the topics that we cover.

25 Q Outside the work that you've done in this case, have

1 you ever reviewed the literature pertaining to positional
2 asphyxia?

3 A Yes.

4 Q Have you --

5 A It'd be in the context -- I think I've told you that
6 I've had cases where excited delirium was in the differential
7 diagnosis. In that context, I would refresh my memory on what
8 people had to say about specific issues. So I --

9 Q For your opinions in this case, did you assume that
10 the oxygen saturation reading was accurate?

11 A Being a clinical pathologist, obviously I'm well
12 aware of the sensitivity and specificity of different
13 measurements. I'm well aware that measurements may or may not
14 be precise and also may or may not be accurate, and precision
15 and accuracy are different.

16 But I understand it's going to be one of the issues
17 that is admitted into evidence in this case. I also understand
18 it's -- it's one of the measurements upon which -- because it's
19 in the medical record and also because it's routine, that if
20 you have a measurement that for some reason you don't believe,
21 the community standard of practice is to repeat the stupid
22 measurement and find out whether it's accurate or not.

23 I am well aware that -- at least according to the
24 medical record, it wasn't repeated. In light of the fact it
25 wasn't repeated, well, assumptions are prone to make people, as

1 you know, look asinine.

2 Notwithstanding that admonition, I say to you that,
3 if a measurement is not repeated, they're -- either someone
4 made a catastrophic error; they suspected it wasn't accurate
5 and didn't repeat it, which is seriously problematic; or based
6 on the clinical situation, at least the people in that
7 situation believed that it might be accurate.

8 Have I successfully communicated the fact that it
9 might not be accurate, but no one repeated it, and the people
10 that were there apparently didn't feel the need to repeat it
11 and didn't repeat it, and based on his struggling activity,
12 it's credible to believe that he may well have experienced
13 that.

14 Q I thought I asked a simple and clear question. I'll
15 try it again.

16 A You did, but the answer isn't as simple as the
17 question.

18 Q Let me try it again, and see if you can answer it
19 directly. For purposes of forming your opinions in the case,
20 did you rely upon the O2 saturation level of 90 percent as
21 being accurate?

22 A As a forensic pathologist and as a clinical
23 pathologist, I'm well aware that it may or may not be accurate.

24 Q Did you reach a conclusion one way or the other?

25 A Well, I answered that question previously, and it

1 was -- I give it a degree of probability of being accurate.

2 Q Okay. But you --

3 A Based on the fact that it wasn't repeated, it's
4 probably more accurate -- at least they thought it might be
5 accurate because they didn't repeat it.

6 But, again, nobody is perfect. It could be
7 inaccurate. I'm well aware of that, not only because I'm a
8 forensic pathologist, but because I'm a clinical pathologist.
9 It could be inaccurate. I'm well aware of that. I know that
10 it exists, and it's something that I have to deal with.

11 Q Okay. An oxygen saturation level of 90 percent is
12 not fatal in and of itself, is it?

13 A I agree.

14 Q There was no reference by any medical provider about
15 Mr. Goode having difficulty breathing, was there?

16 MR. McINTOSH: Marty?

17 MR. PHILLIPS: Yes.

18 MR. McINTOSH: This is John Mark. You cut
19 out on that last question. Would you mind repeating it?

20 THE WITNESS: No, I'm just -- I'm
21 reviewing the record. That's why you're not hearing anything,
22 'cause I'm not saying anything.

23 MR. McINTOSH: I know. I did not hear
24 Marty's question, but --

25 MR. PHILLIPS: I think I can repeat it while the

1 doctor's looking. I think I asked: There was no evidence in
2 the medical record by any provider that Mr. Goode had
3 difficulty breathing? If that was not it, that's close.

4 MR. McINTOSH: Thank you.

5 A I believe I agree with you.

6 Q (BY MR. PHILLIPS) There was no indication in the
7 medical record of his having any discoloration, was there?
8 Before the code?

9 A I believe I agree with you.

10 Q You didn't do an autopsy in this case, did you?

11 A That is correct.

12 Q Do you know why the Plaintiff sought your services
13 since they already had Dr. Wecht disclosed as an expert?

14 A I asked that question. I'm aware.

15 Q And what information were you given?

16 A They put an inquiry on some type of legal chat room
17 and got my name from an individual who I had worked with some
18 20 years ago in Florida.

19 Q Did you ask why they needed you if they already had
20 Dr. Wecht, who had done a private autopsy?

21 A Apparently, the person in Florida said I was a good
22 guy, and -- no, I'm being serious. I was a good guy and knew
23 my medicine. That's my understanding, you know, through
24 hearsay.

25 Q You have seen a copy of the notice for your

1 deposition that we served today, right?

2 A Yes.

3 Q And you're aware that it asked you to bring certain
4 things with you to the deposition?

5 A Yes.

6 Q And have you endeavored to comply with that request?

7 A Yes.

8 MR. PHILLIPS: I wanna mark the deposition
9 notice as the next exhibit, and that would be No. 13; is that
10 right?

11 (Exhibit 13 marked for examination.)

12 Q (BY MR. PHILLIPS) Before I get back to the
13 deposition notice, Doctor, we were talking a moment ago about
14 the O2 saturation level.

15 A Yes.

16 Q If the O2 saturation level were not actually
17 90 percent, would that impact any opinion you hold in this
18 case?

19 A It wouldn't change it, no.

20 Q With regard to the deposition notice, you were asked
21 to bring your entire file in connection with the case. Have
22 you done that?

23 A Yes, I have.

24 Q What do you have that we've not previously
25 identified?

1 A I have this binder, which you-all have been looking
2 at, with multiple tabs. I have a package that contains the
3 Vilke articles, which we have identified.

4 Q Those are Exhibits 11 and 12?

5 A I believe so. His Curriculum Vitae and his opinion
6 which we've not identified.

7 Q You identified that for us earlier, didn't you? His
8 report of February 2017?

9 A I said I had -- I don't know if we marked it as an
10 exhibit.

11 Q No, no, we didn't.

12 A Okay.

13 Q But you did identify it for the record.

14 A I indicated to you that I do not have a hard copy
15 with me today, but I have reviewed the deposition by the
16 civilian female in the emergency room and also Dr. Barnhart.

17 Q Did you make any markings on those depositions?

18 A I haven't, but I only have them in a PDF format. So
19 I haven't -- I don't write -- you can't write on them. At
20 least I don't have the program necessary to write on a PDF
21 document.

22 Q You have made markings in this binder, though, that
23 Mr. Edwards is currently looking at, right?

24 A Markings there. Also markings on various of the
25 pages, as you have seen of the Vilke package.

1 Q All right.

2 MR. PHILLIPS: Let's mark the binder as
3 Exhibit 14, and I wanna be sure we get a color copy of that
4 that captures your highlights and markings.

5 Q (BY MR. PHILLIPS) What else do you have that we have
6 not identified or marked as an exhibit?

7 A We have identified the glass slides.

8 Q Yes.

9 A I think -- I think we're good.

10 Q Item 2 asked you to bring all the records, data, and
11 other matters or information you reviewed in order to form your
12 opinions in the case.

13 Have you done that, and have we identified those
14 matters already?

15 A Right, with the exception I commented. And that is,
16 as we've discussed, you know, I have contemplated cases similar
17 to this on multiple occasions, and I have not brought all of
18 those autopsy reports. But over the course of decades, those,
19 obviously, you know, contribute to my opinion.

20 Q Yes, but this is specifically asking for things that
21 you reviewed in order to form your opinions. And I'm
22 interested in knowing if we have that.

23 A Yes, you do.

24 Q Okay. Do you have records showing your income from
25 expert witness work?

1 MR. EDWARDS: He -- he has all of his work --
2 what do you mean? Everything he does is -- is as an expert
3 witness. If you wanna know the percentage of his income
4 related to consulting with attorneys like me, the percentage,
5 which is all you're entitled to, he's -- he'll be glad to
6 testify to that. He's not gonna give you any financial
7 information.

8 Q (BY MR. PHILLIPS) Are you willing to tell me the
9 amount of money that you make per year for your work in
10 consulting with attorneys in civil cases like this?

11 A My salary is derived only for medicolegal
12 consultation. I don't have any other jobs. As you know, I
13 don't treat live patients.

14 This year, as in previous years, I'm contracted to
15 consult to determine medicolegal cause of death so that my
16 entire income -- I mean, I have a gross income for
17 Michael Arnall, MD, PA.

18 THE REPORTER: I'm sorry?

19 THE WITNESS: Michael Arnall, MD, PA.

20 A That gross income is all derived from medicolegal
21 consultation.

22 As far as consultations related to cases in which I
23 did not do the autopsy, but I'm consulting on an external case,
24 that is not my primary case, that I may do two or three of
25 those cases in a given year. In some years, I've done as many

1 as 500 autopsies. All of my money is -- income is derived from
2 consulting on those autopsies.

3 As you might imagine, anyone who is doing 500 cases
4 has little or no time to do anything else. So that I tell you
5 that, in a given year, I may have two or three cases that are
6 not related directly to an autopsy that I performed or I'm
7 being paid by either a district attorney or a public defender
8 or, in rare instances, an autopsy I did may subsequently cause
9 civil litigation to occur, and yet I'm caused -- I'm caused --
10 and that's why I delineated Dr. Barnhart as a fact witness,
11 because she -- she did the autopsy.

12 In greater than 95 percent of all of my work, I'm a
13 fact witness indicating what I did at the autopsy. Indeed, I
14 express an opinion because I'm qualified as a -- as a forensic
15 pathologist and asked, "Well, what's your opinion about this?"

16 But as far as consultation work for cases external to
17 my personal practice, it may be two or three, maybe once in a
18 while four cases in a year. But it is quite minimal.

19 Q Any notes that you have made about this case would be
20 contained on the documents we've marked as exhibits; is that
21 right?

22 A I have no other pieces of paper, lined or blank, that
23 have notes on them. I find it easiest just to either put an
24 arrow by a line that I find significant for a particular
25 reason, or in some instances I actually make additional words

1 indicating why I thought that was significant.

2 But the majority of the time, if I put an arrow
3 there, you know, I know why that sentence is pertinent, and
4 that is my note.

5 Q All of your notes in this case would be contained on
6 the documents we've marked as an exhibit; is that right?

7 A Every one.

8 Q Okay, good.

9 MR. GASS: Marty, could we just go off the
10 record for a minute?

11 MR. PHILLIPS: Yeah.

12 (Discussion off record.)

13 MR. PHILLIPS: Back on the record.

14 Q (BY MR. PHILLIPS) You were asked to bring
15 correspondence between you and Plaintiff's counsel, or any
16 member of counsel's staff. Do you have correspondence that
17 you've exchanged with Mr. Edwards or his firm?

18 A On the compensation?

19 Q Yes.

20 A He asked me what I charge.

21 I said, "It's \$150-an-hour."

22 He said, "I will send you a check for \$2500 as a
23 retainer."

24 That was a verbal exchange, and I received a check
25 for \$2500 as a retainer.

1 Subsequent to that, I have submitted no bills.
2 I'm -- my time spent on this case is still such that
3 \$150-an-hour, you know, times the hours I've spent, is still
4 under the \$2500.

5 So I've sent no additional bill. I know that's
6 getting ahead of myself to -- to No. 6. But the 2500 is what I
7 received, and I believe I'm still inside that retainer at
8 \$150-an-hour.

9 Q Do you have the bills that you've submitted in this
10 case, or have there not been any yet?

11 A I just said I didn't.

12 Q Okay. That's what I understood. Do you know how
13 much time you spent on the case before the deposition started
14 today?

15 A You know, I have not quantitated that.

16 Q Do you keep records of time spent so you can submit
17 accurate bills, when you do submit a bill?

18 A I do not keep an accurate record, and -- my bills
19 aren't that accurate. That's just a concession of reality.

20 Q Have you ever advertised as an expert?

21 A No. I understand that my name, you know, appears
22 somewhere on some list because people call me, but I -- I do
23 not know what those are. And in this case I know that it was a
24 specific word-of-mouth reference from a person who I know in
25 Florida.

1 Q Do you have a copy of your current CV?

2 MR. EDWARDS: It's what you've got.

3 MR. PHILLIPS: It's the same as the --

4 MR. EDWARDS: Yes.

5 MR. PHILLIPS: Okay.

6 Q (BY MR. PHILLIPS) Were you provided with any facts
7 or data from Plaintiff's counsel that you considered in forming
8 your opinions?

9 A Yes.

10 Q Is it in the binder?

11 A Yes, it is.

12 Q Okay.

13 A And in the package from Vilke.

14 Q Okay. The Vilke articles in his report that --

15 A Yes.

16 Q -- that we talked about?

17 All right. Have you been provided with any other
18 assumptions from Plaintiff's counsel that you've considered in
19 forming your opinions?

20 A Nothing in addition to that.

21 Q All right. Have you considered any texts, treatises,
22 journal articles, other than the ones that are mentioned in
23 your report or other than the ones we've talked about here
24 today?

25 A No, with the caveat that this is a topic about which

1 all forensic pathologists, including myself, have been reading
2 for years.

3 So that, if there is some article that I have used to
4 consider a similar case on a previous occasion, it --
5 obviously, there are other articles that I have read that
6 aren't provided. They weren't used specifically in this case,
7 but there are certainly numerous other articles that I've read
8 in consideration of similar cases on previous occasions, and
9 those obviously play a part in the opinion I formed in this
10 case.

11 Q Do you intend to use any sort of summary or
12 demonstrative aid with any testimony you give at trial?

13 A At this time, I have no such intent. I've not
14 created any exhibits. I haven't promised I'm going to create
15 any exhibits or demonstratives, but I don't know what I'm going
16 to be asked for in the future.

17 Q I think that there are some textbooks lying on the
18 table to which you've not yet made reference. Is there
19 anything you need to tell us about any of the other, I guess,
20 three textbooks or so that we've not made reference to here?

21 A Goodman & Gilman as a specific reference to no deaths
22 related to LSD on -- (reading). I'm looking for the page. I'm
23 looking on Page 311 of "Pharmacological Basis of Therapeutics,"
24 Fifth Edition.

25 And on Page 311, it states: "In man, deaths

1 attributable to direct drug effects are unknown, although fatal
2 accidents and suicides during states of LSD intoxication have
3 been reported."

4 Q We'll mark that excerpt from Goodman & Gilman as
5 Exhibit 15.

6 A That's the last paragraph of Page 311.

7 MR. GASS: Thank you.

8 A I believe I tangentially referenced Goodman & Gilman,
9 although I will cite -- I mean, Harrison's --

10 Q (BY MR. PHILLIPS) Harrison's?

11 A -- Principles of -- I'm looking at Goodman and -- I'm
12 sorry. I'm looking at Harrison's textbook, "Principles of
13 Internal Medicine," and the Edition is 11th, Page 2,117, Column
14 1.

15 First paragraph: "To date there have been no
16 clinical reports of death caused by the direct effects of LSD."

17 Q We'll mark that excerpt as Exhibit 16.

18 MR. GASS: Thank you.

19 Q (BY MR. PHILLIPS) I think the only remaining text to
20 which you may not have made reference to is Tintinalli. Is
21 there any particular reference you made to it?

22 A (Looking.)

23 Q Is there any particular reference that you've made
24 reference to from Tintinalli? If not, we need not spend any
25 more time on this.

1 A There was a reason I brought this, and -- spppha. I
2 can't find it immediately. And, in addition, I'll -- I'll
3 summarize it. It was a reference -- you'd asked me about the
4 administration of lorazepam. That's an issue we've discussed
5 in this deposition. And I stated to you that it was
6 problematic if you don't monitor the patient after you give
7 lorazepam.

8 This was merely a reference that asserted that
9 continuous monitoring of the patient after administration of
10 lorazepam is recommended. So I -- I've given you that
11 statement. This was merely one of innumerable references which
12 indicate that that's appropriate.

13 Q Was there any reference that you made to the DiMaio
14 "Forensic Pathology" text? I'm not sure we --

15 A DiMaio is the same individual who published the other
16 text. And, you know, I brought that, if that was something
17 that was going to be referenced.

18 Q Is there any particular part of that text, that you
19 hold in your hand, that you make reference to?

20 A Obviously, coming to a deposition, I don't know the
21 questions you're gonna ask, but I know potential questions that
22 are gonna be asked.

23 And you've asked some questions in reference to -- to
24 obviously the documents that I received from Vilke. And, you
25 know, I didn't know how in depth you were gonna cover the

1 position between my opinion and his. Although, as I said, it's
2 different, as -- as you know.

3 There are other areas of his opinion which you
4 haven't covered. So I haven't made opinions on it, and I don't
5 know if references in the text are relevant, because you
6 haven't asked any questions on those topics.

7 Q So there's nothing about the "Forensic Pathology"
8 text, Second Edition, that you need to make reference to based
9 on anything we've talked about or any opinion you've expressed
10 in your report?

11 A I agree.

12 Q Okay. Can excited delirium deaths occur in the
13 absence of restraint?

14 A Yes.

15 Q Can excited delirium cause cardiac arrhythmia?

16 A Yes.

17 Q Is excited delirium something that is not because of
18 a drug overdose but rather a reaction that occurs at a
19 recreational level?

20 A Yes.

21 Q Can people die of excited delirium even if they are
22 restrained in the supine position?

23 A I believe so, yes.

24 Q Is it your contention that LSD was helpful to
25 Troy Goode?

1 A I made the comment in the report, I believe, that
2 insomuch as I believe he experienced a metabolic acidosis in a
3 paradoxical sense, his hyperventilation and screaming, as noted
4 by the medical personnel, is a compensatory mechanism. That is
5 to say, a compensatory respiratory alkalosis that compensates
6 for the metabolic acidosis of straining against the restraints,
7 the isometric exercise.

8 So that, in some ironic sense, not a therapeutic
9 sense, and you never treat a person with LSD for this purpose,
10 but in this particular case, hyperventilation and screaming
11 perhaps even inadvertently acted as a compensatory mechanism to
12 equilibrate --

13 THE REPORTER: To what?

14 THE WITNESS: Equilibrate.

15 A -- his blood pH that was acidotic, in my opinion, due
16 to the isometric exercise.

17 Q (BY MR. PHILLIPS) Was Mr. Goode psychotic in the
18 emergency room?

19 A His behavior could be termed as psychotic. I'm not
20 so sure that the diagnosis of clinical psychosis would be
21 appropriate to a person under the effects of LSD, but his
22 behavior certainly appeared psychotic.

23 Q I noticed in reviewing your CV, Dr. Arnall, that
24 there are several positions that you have previously held that
25 you no longer hold; is that right?

1 A Correct.

2 Q Have you ever been fired from any position you've
3 held?

4 A Fired? Certainly I've never received a termination
5 letter. The coroners in the state have the ability to call
6 whoever they want. And the coroner in Boulder stopped using
7 me, but no firing, that I know of.

8 And I ran against the coroner in Adams County, and
9 that coroner stopped using me. Perhaps it was unwise to run
10 against them in a general election. But I don't know that
11 there was any letter of firing, but they certainly stopped
12 using me.

13 Q Why was it you left your position in Florida?

14 A In the case of Southwest Florida, the group
15 relinquished their practice at two smaller hospitals, and I
16 picked up those hospitals. So the group no longer used those
17 hospitals, but the hospitals were happy to see me there. So
18 that's why I wouldn't call it a firing, because they continued
19 to ask for my services. It's just that the group -- they sold
20 their office, and the senior member retired.

21 As far as Belle Glade Hospital, there was an
22 opportunity to move to Lawnwood Regional Medical Center, and so
23 I seized that opportunity. Belle Glade Hospital actively
24 contemplated publicly closing their hospital for -- 'cause it
25 was not cost effective. So I merely jumped ship from Belle

1 Glade, and that was also substantially the reason for
2 Clewiston.

3 In Lawnwood Regional Medical Center, I had an
4 acrimonious relationship with two other pathologists at some
5 certain point. The hospital was rated by the Federal Bureau of
6 Investigation. The other two pathologists were arrested by the
7 Department of Justice and pled guilty to some criminal charges.

8 That acrimony led to a very uncomfortable
9 relationship. And it obviously didn't seem as though that was
10 going anywhere positive, insomuch as doctors had been arrested
11 and lost their license as a direct consequence of
12 irregularities that I had observed.

13 Q Why did you leave your position at Adams County,
14 Colorado?

15 A I ran against the coroner, and she stopped using me.
16 She never enunciated why she stopped using me, but I certainly
17 ran against her in the election, and I believe I became a
18 political liability.

19 Q Why did you leave your position in Larimer County,
20 Colorado?

21 A The individuals in Larimer County cross-covered for
22 me, and I cross-covered for them. And at a certain point,
23 while they did not enunciate the reason they did not want to
24 cross-cover for me, they decided not to cross-cover for me, and
25 they did not need me to cross-cover for them after they started

1 cross-covering for me. I worked there predominantly on
2 weekends only. I didn't work there full-time.

3 Q Why did you leave your position in Weld County,
4 Colorado?

5 A It's the same group. They're side-by-side.

6 Q Why did you leave the position in New Zealand?

7 A I had a chance to go down to work for the Ministry of
8 Justice in New Zealand. The Ministry of Justice and the
9 Department of Pathology is chronically short of forensic
10 pathologists.

11 So, while it's usually very difficult to get a job
12 down there, if you have a -- a needed specialty, it's very
13 easy. So they had hired the individual who trained me for a
14 six-month rotation, and then rehired him and his wife for a
15 18-month rotation.

16 When they came back to the states, as is routinely
17 the case, the organization down there advertised for a forensic
18 pathologist. And I picked up a four-and-a-half-month stint
19 down for the Ministry of Justice.

20 I did that during a time period where I was not
21 working for Adams County. On an occasion previous to the time
22 that the female coroner stopped using me, there was a male
23 coroner.

24 That situation was a situation where the female
25 employees in the coroner's office, under the male coroner, came

1 to me and said that they wanted me to do something. And, in
2 particular, they wanted me to stop their supervisor from giving
3 them invited massages.

4 So that I indicated to the coroner and the supervisor
5 that they were gonna have to stop touching the girls. And that
6 led to the firing of the supervisor. But, subsequent to that,
7 the elected coroner used the closed-circuit equipment in the
8 autopsy room to follow the women around, looking at the area
9 between their chin and their bellybutton. So that the women
10 asked me to take a picture of the monitor we had, so they could
11 fire a federal -- file a federal complaint.

12 So I took that picture of the monitor. Within three
13 minutes, the elected coroner had come in, had ordered that
14 evidence that was going to be used in a federal complaint to be
15 destroyed and then fired me. That went to litigation, and the
16 collection of female employees and I got a \$1.6 million
17 settlement through litigation.

18 And it was during that time period, that I was
19 discharged from the coroner's office, that I went down to New
20 Zealand.

21 Q Discharged from which coroner's office?

22 A Adams County Coroner's Office --

23 Q Okay.

24 A -- by the male coroner. After that was over, one of
25 the female Plaintiffs and myself ran for office, I in one

1 party, she in the other. She won the election, and it is my
2 belief that I remained a political liability since I was able
3 to run for election on subsequent occasions as well. Although,
4 she never verbalized that.

5 Q Why did you leave your position in Boulder County?

6 A That was never verbalized, but I will tell you that
7 there was -- the last case I ever did there was a case in which
8 a woman had come to Boulder for an abortion, a late-term
9 abortion, from out of state, was staying at a hotel or motel,
10 and had delivered the child in a motel.

11 I was assigned to do the autopsy on the child, to
12 determine whether the child had been delivered alive and killed
13 or delivered dead.

14 During that autopsy, the police officer and the
15 coroner's office's employee talked extensively about
16 prosecuting the woman for homicide.

17 However, it was obvious from the autopsy that this
18 was a natural death related to nuchal cord, the cord wrapped
19 around the child's head -- neck multiple times.

20 In response to my determination that there was no
21 crime committed, despite the fact that the coroner's office's
22 representative and police officer seemed dead intent on
23 pursuing homicide charges, the coroner went doctor-shopping and
24 got a second autopsy.

25 The second autopsy revealed the same thing as the

1 first, nuchal cord, natural cause of death. Neither the
2 pathologist who did the second autopsy, Rob Kurtzman, nor I,
3 ever did another case for Boulder County.

4 Now, no reason was put down on paper. So it is
5 speculation on my part that the last case I did and the last
6 case that Dr. Kurtzman did was the cause for the fact that we
7 were never called again. So that is speculation. None of that
8 was ever verbalized, none of that was ever put in writing.

9 Q Why did you leave your position in Broomfield County,
10 Colorado.

11 A Broomfield and Adams have a joint contract. So
12 whoever does the autopsies for Adams does the autopsies for a
13 very small county called Broomfield.

14 Q Other than the one place you identified where there
15 was an acrimonious relationship that you had with some of the
16 other pathologists, were there any other places you worked
17 where you had an acrimonious relationship with the other
18 pathologists?

19 A Well, not exactly as -- 'cause one of them apparently
20 attempted to hire an undercover police officer to assassinate
21 the other. So nothing's been as acrimonious as -- and that's
22 not a joke, actually. It's in the Miami Herald. Nothing has
23 been as acrimonious, and no other people have been arrested
24 other than in that case.

25 Q Has there -- has there ever been a place, where you

1 weren't terminated, but you were asked to leave or forced to
2 resign in lieu of termination?

3 A Well, I told you about the elected coroner in Adams
4 County, who, over the course of three minutes, both ordered
5 evidence destroyed that was gonna be used in a complaint and
6 also -- and fired -- said, "You're outta here."

7 And I actually have an audio recording of that, of
8 that firing. But, again, that was subject to litigation and --

9 Q Is there any other instance besides that where you
10 resigned in lieu of termination or have been terminated?

11 A No. And in New Zealand they offered me a permanent
12 position before I came back. So that -- obviously, that was
13 the opposite of firing. They asked me to stay on forever.

14 Q Do you hold any medical examiner or coroner position
15 currently?

16 A Coroners are elected. I have not been elected to
17 office, and I'm not a formal -- using the term "medical
18 examiner," formally as appointed by a governmental agency, no.

19 There are prosecuting attorneys who will refer to me
20 colloquially as the medical examiner because -- to designate me
21 as doctor, as opposed to a non-physician coroner in the State
22 of Colorado. But no formal appointment as a medical examiner
23 by a governmental authority and no elected position as a
24 coroner.

25 Q Have you ever done an autopsy of a person who was

1 restrained at the time of death where you concluded that the
2 death was not related to the restraint?

3 A There may have been a person who was in handcuffs
4 running away and shot, but that's not what you're referring to.
5 But I think there's an answer to your question, but -- but I
6 know it's not what you're referring to. Who was restrained and
7 I did not diagnose the death related to the restraint?

8 Q Yes, a patient who was in restraints at the time of
9 his or her death, which you concluded the death was not related
10 to the restraint or manner of restraint.

11 A No.

12 Q Have you ever been arrested?

13 A No.

14 Q Do you have privileges at any hospital currently?

15 A No.

16 Q When have you last had any hospital privileges?

17 A Lawnwood Regional Medical Center, 2004.

18 THE REPORTER: Where? I'm sorry.

19 THE WITNESS: Lawnwood,

20 L-A-W-N-W-O-O-D.

21 A And that was where doctors got arrested, and that
22 wasn't a profitable situation.

23 Q (BY MR. PHILLIPS) Have you ever had any hospital
24 privileges revoked or restricted?

25 A No.

1 Q Have you ever had any adverse action taken on your
2 medical license in any state?

3 A No.

4 Q Are your board certifications reflected on your CV?

5 A I'm sure they are, yes.

6 Q Okay. And any publications you have are also
7 reflected on the CV?

8 A There's one pub and one presentation at a meeting,
9 but those are minimal. Just -- there's just two on -- at the
10 end of the CV.

11 Q And they have nothing to do with the issues we're
12 discussing in this case, right?

13 A Correct.

14 Q As an expert witness in a civil case, have you been
15 involved in any other case involving restraint besides this
16 one?

17 A In a civil case. I've been involved in civil cases
18 where there was a death in a prison, but it wasn't related to
19 four-point restraint or any -- I don't think I've been involved
20 in a civil case where I didn't do, you know, the autopsy. I
21 don't think I've ever been consulted, you know, in a case where
22 I didn't do the autopsy, in a case where hogtie or any type of
23 four-point restraint was involved.

24 Although, I have testified in civil cases, but
25 they're related to other, you know, problems of patients who

1 were in a prison, but it wasn't restraint per se.

2 Q Have you given any deposition testimony, that you can
3 recall, that pertained to positional asphyxia or excited
4 delirium?

5 A Deposition. In Florida, we do depositions in
6 criminal cases, but we don't do depositions in criminal cases
7 in Colorado. I don't recall any restraint deaths that I did in
8 Florida.

9 As we discussed, even the use of the term of
10 "homicide" in the State of Colorado usually does not end up in
11 criminal litigation, because the district attorney understands
12 that the medical term "homicide" is not equivalent to the legal
13 term "homicide."

14 So I don't recall any depositions in which four-point
15 restraint, maximal restraint, hogtie restraint -- I don't
16 recall any, no.

17 Q Or excited delirium?

18 A Or -- strangulation, yes. But excited delirium,
19 hogtie, no.

20 Q Okay.

21 A It was a civil case that had -- that it had to do
22 with --

23 Q Mr. Edwards and his firm are the ones who retained
24 you to be involved in this case, obviously. Have you worked
25 with them before?

1 A Never.

2 Q Did you know them before this case?

3 A None whatsoever. In fact, I didn't understand how he
4 got ahold of me.

5 Q And you learned later it was through that chat room
6 that you told us about?

7 A Yes.

8 Q How many civil cases have you reviewed as an expert
9 witness?

10 MR. EDWARDS: Within the past four years.
11 That's all he's required to produce.

12 MR. PHILLIPS: I don't think I'm confined to
13 that.

14 MR. EDWARDS: I think you are. I think the rule
15 specifically says, and we've disclosed -- I mean, to talk about
16 20,000 autopsies?

17 MR. GASS: In civil cases?

18 MR. EDWARDS: How many civil cases have you been
19 involved in? Can you remember?

20 MR. GASS: (No response.)

21 MR. EDWARDS: That's what I thought.

22 A I am asked to review either a case I've done -- I may
23 get a call from an attorney. Even though I've done the
24 autopsy, I may still get a call, "What are your thoughts?"

25 And there are other attorneys, including but not

1 limited to my little brother, who will call me and ask me for
2 my thoughts on a case. But it is usually a case those -- the
3 vast majority do not -- to my knowledge, do not end up in
4 litigation.

5 And I -- as I say, I don't recall any depositions on
6 excited delirium except for the case where a person was, you
7 know, put in a strangle-hold during an altercation at the bar.
8 I'm sure that was excited delirium. It was just an intoxicated
9 person put into a strangle-hold by a bouncer.

10 Q (BY MR. PHILLIPS) Have you given deposition
11 testimony in any civil case at the request of any Defendant?

12 A I do a lot of criminal defense consultation. Let me
13 contemplate civil defense. I certainly recall one case in
14 which I testified for the defense, which was a -- the company
15 that runs the jail in a -- an in-custody death. But that
16 wasn't related to hogtie or restraint. That was related to
17 withdrawal from a medication and subsequent dehydration. That
18 was the defense for a -- a company in a -- and a physician who
19 worked in the jail.

20 Q Can you recall having given trial testimony in a
21 civil case at the request of the Defendant?

22 A Civil case. As I've said, I don't do very much civil
23 work. I do a lot of criminal work and a lot of criminal
24 defense. I don't recall, but I don't do very much civil work.

25 Q I know your report says that your fee in this case is

1 \$150-an-hour. Is that your fee for all work in this case?

2 A It is a number which -- I'll tell you where it
3 derives from. The State of Colorado pays \$150-an-hour for
4 expert testimony for an MD.

5 And I will tell you philosophically that, when I
6 charge \$150, no one asks me in court what my fee is, 'cause no
7 one wants to hear the \$150-an-hour. So that -- that is
8 precisely my charge. It is a flat rate. If I'm working on
9 your case, it's \$150-an-hour.

10 Q Including deposition time, trial time, and
11 everything?

12 A Flat rate.

13 MR. PHILLIPS: Doctor, others have been
14 waiting very patiently to ask you questions. So I'm going to
15 yield to them, and that'll give me a chance to reflect and see
16 if I have other questions I may wanna ask you. But I
17 appreciate your time.

18 Anybody on the phone have any questions?

19 MR. McINTOSH: Marty, this is John Mark
20 McIntosh. Brad, do you wanna go ahead?

21 THE REPORTER: I can't understand you.

22 MR. DILLARD: I'm fine with doing that.

23 MR. McINTOSH: Okay, you go ahead.

24 MR. DILLARD: This is -- this is Brad
25 Dillard. I represent The City of Southaven Defendants in this

1 case.

2 THE REPORTER: I can't understand.

3 MR. DILLARD: Can you hear me okay?

4 THE REPORTER: It's garbled.

5 MR. DILLARD: Hello?

6 THE REPORTER: It's not clear. I've had
7 this --

8 MR. EDWARDS: Brad, she can't understand.
9 You're garbled.

10 MR. DILLARD: Okay.

11 MR. EDWARDS: She cannot understand you.

12 THE WITNESS: Brad, go ahead and issue the
13 question, and I'll try to repeat it. And if -- if the -- if my
14 repetition of the question is close, then we'll proceed. Is
15 that -- is that a fair way to proceed? Notwithstanding the
16 difficulties of this electronic connection.

17 MR. DILLARD: Let's try to do that. I
18 will speak slowly. If you have any difficulty hearing me, just
19 let me know.

20 THE WITNESS: I will.

21 MR. DILLARD: Thank you.

22 THE REPORTER: And this is Brad, right?

23 MR. EDWARDS: Yeah, Brad Dillard.

24 MR. DILLARD: Brad Dillard for the
25 Southaven Defendants.

1 THE WITNESS: Please proceed.

2 EXAMINATION

3 BY MR. DILLARD:

4 Q Doctor, the opinions that you are giving in this case
5 are limited to cause of death, correct?

6 A I also issued an opinion as to the manner of death.
7 So it's cause and manner.

8 Q You are not rendering opinions in regard to the
9 specific manner in which the Southaven Police Department placed
10 Mr. Goode into custody and detained him, are you?

11 A During this deposition, we have touched upon my
12 opinions concerning different aspects of care, but I believe
13 that I have stated that I'm not going to hold myself out as an
14 expert.

15 And I've conceded that, even if I attempted to do so,
16 it is unlikely that a judge would allow me to do so, based on
17 my, you know, conceded lack of -- of, you know, formal
18 training, you know, in -- certainly in emergency medicine.

19 And that segment certainly -- also applies to police
20 procedures. I am not a police officer. I am not POST,
21 P-O-S-T, trained. I have not attended a police academy.

22 Q And, similarly, Doctor, you would not render opinions
23 in this case as to the standard of care for an EMT who may have
24 transported Mr. Goode via ambulance to the Baptist ER; is that
25 correct?

1 A I have touched on that issue insomuch as I have said
2 that, if you believe the experimental works of Chan, that there
3 should be no hypoxia. Then the presence of hypoxia might
4 compel you to conclude that there had been some malevolent
5 activity or pressure on the back.

6 However, I also have conceded that I'm -- you know,
7 have no specific training in either emergency medicine, other
8 than as a medical student, and certainly no training as an EMT.

9 So that I agree that it is unlikely that a judge
10 would allow me to issue an opinion on that. And I have not
11 been asked to issue an opinion on that, and I do not anticipate
12 issuing an opinion other than to say that there are certain
13 findings which, you know, the trier of fact may attend to.

14 But I'm not going to issue an opinion other than to
15 say I am well aware of the facts that might lead a person to
16 contemplate, you know, that issue. I will not render a
17 definitive opinion on that.

18 Q On the third page of your report, you referenced that
19 "Mr. Goode was taken to the ground by a K9 dog." What have you
20 reviewed that would indicate to you that the K9 actually took
21 Mr. Goode to the ground?

22 A And, again, I have -- I have nothing other than
23 the -- you know, the reference by police. I have no
24 photographs of Mr. Goode on the ground.

25 And that certainly may be a conjunction of the fact

1 that the K9 indeed -- and I don't think there's any dispute
2 that the K9 did interact physically with Mr. Goode. And
3 subsequent to that interaction, Mr. Goode was on the ground.

4 But I freely admit that I -- I was not there, and I
5 do not have a videotape. And I will -- you know, obviously, my
6 opinion as to that sequence of events is not going to be
7 admitted because I wasn't there, and I didn't see it.

8 I just understand that there was a physical
9 interaction between Mr. Goode and the dog, K9. And at a
10 subsequent time period, Mr. Goode was on the ground. That is
11 the extent of my assertion in that instance.

12 Q You go on to state that "Serious bite wounds were
13 inflicted on Mr. Goode's arm." What knowledge would you have
14 about the nature of the serious bite wounds?

15 A I believe if you go to the medical record -- and I'm
16 looking at it right now. Give me a moment to reference the
17 specific -- I am looking at the emergency department provider
18 notes by Dr. Oliver, on my Page 4, which merely states:

19 "He then opened the door to the police dog unit and
20 was bitten by the police dog."

21 I go to Page 3, where the physical examination under
22 "Musculoskeletal" reads: "Dog bite marks to left shoulder and
23 upper arm."

24 And then I believe that there is a general reference
25 to abrasions and contusions under "Evidence of Injury" in the

1 Autopsy Report. Although, I do not believe the Autopsy Report
2 specifies that those abrasions and contusions are diagnostic of
3 a bite.

4 However, on Page 4 of 4, the Autopsy Report states:
5 "Abrasions and lacerations/puncture wounds of the left lower
6 arm were consistent with a reported K9 unit bite."

7 So that would be the extent of the documentation in
8 the medical record and Autopsy Report concerning bite marks.

9 Q You go on to state, Doctor, that "Mr. Goode was also
10 hit by a Taser dart fired by an Officer."

11 In making that statement, are you asserting that
12 Mr. Goode was actually shot by use of a Taser or that it was
13 simply deployed and one dart struck him?

14 A I will tell you that I specifically looked in the
15 Autopsy Report to determine whether there were a pair of
16 characteristic puncture marks, and I did not find any reference
17 to Taser puncture marks in the Autopsy Report.

18 I will tell you that, while I cannot cite the
19 specific reference -- and you probably don't want me to take
20 the time to do so. It is my recollection that an electrical
21 discharge was not administered because both electrodes did not
22 securely strike.

23 It is my recollection that only one electrode struck,
24 and one did not. Although, I tell you that, in looking at the
25 Autopsy Report, I see no reference to any type of puncture mark

1 related to either one or two electrodes.

2 Q Doctor, further down on that same page, there's a
3 statement that the ambulance in a non-emergent manner leisurely
4 transferred Mr. Goode to Baptist Memorial Hospital-Desoto.

5 You're not rendering any opinion in this case that a
6 delay in transfer caused or contributed to Mr. Goode's death,
7 are you?

8 A I agree with your statement. In fact, to the
9 contrary, I've specifically cited the prolonged nature of the
10 interaction as exacerbating what I believe to be metabolic
11 acidosis.

12 Q Continuing on to the next page of your report, the
13 second paragraph, it states that "At 8:33 p.m., Mr. Goode was
14 triaged at Baptist."

15 Do you recognize this as the point that care
16 transitioned from the Southaven EMTs to the Baptist Emergency
17 Room Department?

18 A I'm going to give you a -- a more verbose answer, but
19 it's not because of any attempt to hide the ball. Under any
20 other circumstances, I would say that, when a patient is
21 triaged in an emergency department, I would opine that care has
22 formally transitioned.

23 The reason I qualify that statement, in this
24 particular case, is that it is my understanding that there has
25 been an assertion that the supervision of the medical status of

1 the patient was (a) conducted by a police officer, not a
2 paramedic, but a police officer; and (b) that the supervision
3 complied with the community standard of practice.

4 So I understand that caveat does not include any
5 allegation of paramedic supervision of the patient in the
6 emergency room, but I issue that caveat because I understand
7 that this case has a bit of a departure from any other
8 circumstance in which I would opine that, once a patient is
9 triaged in an emergency department, medical care has
10 transitioned formally and practically for all purposes.

11 Q Would you agree, Doctor, that the Baptist ER would
12 provide a higher level of care than either EMTs or police
13 officers could provide either on the scene or via
14 transportation in an ambulance?

15 A Again, this is not argumentative. But, in this
16 particular case, it's my understanding that the paramedics
17 actually had continuous cardiac monitoring. And that's
18 something that, as I have already stated, to the best of my
19 knowledge, was not provided by the hospital.

20 So, ironically, while generally speaking you are
21 correct a hospital should be able to provide a superior level
22 of care in this case, because of the specific issues, it may
23 well be the case that one could reasonably argue that the
24 paramedics provided a superior level of care. I understand the
25 irony of that statement, but I've also explained the nature of

1 it.

2 Q Let me rephrase that question just slightly. Would
3 you expect a hospital ER to be able to provide a higher
4 standard of care by their trained nurses and physicians and
5 equipment available in the ER department?

6 A Yes, of course.

7 Q You were asked a few questions by Mr. Phillips
8 concerning pressure on Mr. Goode's back. And on the next page,
9 I believe, of your report -- it's on the same page where at the
10 bottom there's a heading style "The Baptist Medical Records."

11 A Yes.

12 Q Midway in the middle of that page, there's a
13 statement that "Testimony in the case appears to have
14 established that officers applied weight to Mr. Goode's back
15 during restraint."

16 Do you see that statement?

17 A Wait a second. I see that statement. And I -- right
18 now, I don't recall specifically where I got that from. I will
19 have to go back and -- to the -- to the statements that I've
20 read, to determine exactly where I got that. I can't show that
21 to you right -- that's my understanding.

22 But, again, I say to you I was not present. I did
23 not see it. And, you know, it is unlikely that my hearsay
24 testimony would be allowed in any -- in any -- at any point.

25 MR. EDWARDS: Well, that's not correct. If you

1 don't recall, you don't recall.

2 A I don't recall it. I'll have to -- I'll have to
3 figure out where I got that from.

4 Q (BY MR. DILLARD) And my question in regard to that,
5 Doctor, is: Would it be fair to say that nowhere in your
6 report do you indicate or attempt to quantify the amount of
7 weight that may have been applied to Mr. Goode's back during
8 restraint or how long a period of time that that weight may
9 have been applied?

10 A I agree.

11 Q I'm gonna flip over to the very last substantive page
12 of your report, which would be essentially Page 2 of your
13 opinions. Are you there, Doctor?

14 A Here.

15 Q Thank you. The last full paragraph of your opinion
16 states that: "Based upon a reasonable degree of medical
17 certainty, Mr. Goode's death was caused by the manner of
18 restraint and positioning (precipitating asphyxia) and the
19 subsequent intravenous administration of chemical restraints
20 which exacerbated asphyxia and ultimately precipitated
21 cardio-pulmonary arrest" (sic).

22 A That is correct.

23 Q Did I read that correctly?

24 A Yes, you did.

25 Q Okay. So, am I correct that, in your opinion, these

1 two events in combination precipitated Mr. Goode's death?

2 A Yes.

3 Q The manner of restraint and positioning, would you
4 indicate precipitated asphyxia?

5 A And, as I have said, inevitably exacerbated the
6 problem with metabolic acidosis. Yes.

7 Q And the second part of your opinion, the subsequent
8 intravenous administration of chemical restraints, you opine
9 exacerbated or worsened the asphyxia, correct?

10 A Correct.

11 Q And am I reading this correctly that, when you say
12 the subsequent intravenous administration of chemical
13 restraints, which exacerbated asphyxia and ultimately
14 precipitated cardiopulmonary arrest -- are you opining that the
15 administration of the restraint is what ultimately precipitated
16 the cardiopulmonary arrest?

17 A It was certainly the last straw among straws. It was
18 the last physiologic challenge. It was the last event, and I
19 believe a medically significant event obviously, and
20 contributed to the cardiopulmonary arrest.

21 Q How quickly, in your experience, Doctor, if you know,
22 would repositioning or use of a different type of restraint
23 have reduced or eliminated any respiratory compromise that you
24 have testified to today?

25 A Well, the respiratory compromise would be quite

1 quick. The resolution of the metabolic acidosis would take
2 longer. But the -- the resolution of the respiratory
3 compromise would be less than one minute.

4 And, again, I'll add, notwithstanding the -- the --
5 the -- the obvious fact here that the entire period of struggle
6 had obviously caused exhaustion. But, all things being equal,
7 repositioning him would improve his condition.

8 Q Do you have an opinion, Doctor, as to the latest
9 point in time that repositioning or a change in restraints or
10 some other intervention would have prevented Mr. Goode's death,
11 in your opinion?

12 A Certainly timing is an issue about which we are
13 frequently asked. And empirically it took this long. It is
14 difficult to say with precision -- and I certainly could not
15 cite you any references to, you know, specify a metric answer
16 to your question. I can't tell you how much sooner would have
17 avoided this problem. I have no --

18 Q Are you able --

19 A Go ahead.

20 Q I'm sorry, Doctor, go ahead.

21 A I'm just reiterating I can't do that; I don't know
22 how to do that.

23 Q And I understand your testimony that you can't
24 perhaps break this down to a certain minute or second. So
25 let's use some sort of general time frames that you have listed

1 in your report, one of which being the 8:33 p.m. triage at
2 Baptist.

3 Would you be able to opine, to a reasonable degree of
4 medical certainty, whether any changes in positioning, changes
5 in restraints, or other medical interventions would have
6 prevented death if implemented before or after the 8:33 p.m.
7 triage period?

8 A I believe it is fair to say that, the sooner changes
9 were initiated, the more likely a favorable outcome. And when
10 you ask about the triage time period, that is a significant
11 time period before respiratory arrest.

12 So I believe, generally speaking, although I cannot
13 quantitate it, that a resolution of the -- what I believe to be
14 the precipitating factors in a significantly improved time
15 period, would have significantly improved his probability of
16 survival.

17 Q Doctor, I'm not sure if I've -- if I totally
18 understood your -- your response. Are you saying that
19 repositioning or a change in restraints or another medical
20 intervention, if implemented after the 8:33 p.m. triage period,
21 would more likely than not, in your opinion, have resulted in
22 Mr. Goode surviving?

23 A Generally speaking, yes. However, I call to your
24 attention that that question doesn't take into account the
25 administration of the chemical restraint, the Ativan, the

1 lorazepam, which I obviously freely stated contributed.

2 But it is fair to say that, if you had improved his
3 physical condition and also if you had failed to administer a
4 respiratory depressant, lorazepam, then his probability of
5 survival would likely have been improved. And I -- I think
6 that's easy for everyone to understand in light of the opinion
7 that I have expressed.

8 I would point out to you that, while on triage,
9 whether it's right or whether it's wrong, the pulse oximetry
10 was 90, which I've said is on the cusp of oxygen therapy. If
11 one had -- taking him at that point, one would say, "Well, he
12 obviously is alive at that point."

13 If you had failed to exacerbate his physiologic
14 dilemma, there's good reason to believe he would have continued
15 to be alive.

16 And that triage point, with his pulse oximetry of 90,
17 is the point at which care, to a significant degree or to a
18 total degree, transitioned from paramedics to emergency
19 department. There's still some ambiguity as to whether care
20 transitioned from police to emergency department at the time of
21 triage.

22 Q Okay.

23 MR. DILLARD: Thank you, Doctor. I'll
24 tender the witness.

25 THE REPORTER: How much --

1 MR. McINTOSH: Doctor, this is John Mark
2 McIntosh.

3 THE REPORTER: Just --

4 MR. McINTOSH: I represent the Defendant
5 Baptist Memorial Hospital-Desoto, Inc. Are you able to hear me
6 okay?

7 THE REPORTER: Mr. McIntosh, how long are
8 do you think -- how long are we gonna go? I just need a few
9 minutes to confirm a job for tomorrow.

10 MR. PHILLIPS: Want a quick break?

11 (Discussion off record at, recess taken

12 1:43 p.m. and back in session at 1:50

13 p.m.)

14 MR. McINTOSH: Doctor, as I said before we
15 took a break, my name is John Mark McIntosh, and I represent
16 the Defendant Baptist Memorial Hospital-Desoto, Inc. Are you
17 able to hear me all right?

18 THE WITNESS: I am.

19 MR. McINTOSH: Please let me know if that
20 changes.

21 THE WITNESS: I will.

22 EXAMINATION

23 BY MR. McINTOSH:

24 Q Doctor, I don't mean to -- to beat a dead horse, but
25 since I'm last in line, I think I'll have to. Am I --

1 A I understand.

2 Q I'm sorry to interrupt you. Am I correct that you
3 are not holding yourself out as an expert in the field of
4 emergency nursing?

5 A Correct.

6 Q Would I also be correct that you have not been asked
7 to offer nor do you plan to offer opinions as to the standard
8 of care as to the nurses who rendered care and treatment to
9 Mr. Goode on July 18, 2016?

10 A That is correct. I have made certain observations,
11 but I -- I will not issue an opinion as to the standard of
12 nursing care nor the standard of medical care. Even though, as
13 you know, I have made observations, I will not issue an opinion
14 on the standard of care by the nurses or doctors.

15 Q Doctor, I noticed in your report, under materials
16 that you listed and you reviewed, you identified two videos.
17 Other than the videos listed in your report, have you reviewed
18 any other videos in connection with your review of this matter?

19 A Nope, not that -- I don't think so. All I've got is
20 one disk, and that's it.

21 Q I also saw identified on there a single photo of
22 Mr. Goode with his son. The same question, but with regard to
23 photographs. Have you reviewed any other photographs, other
24 than this photo of Mr. Goode with his son, in connection with
25 your review of this case?

1 A You know, there's a USA Today article that was in
2 this package, and that USA article may have -- may contain some
3 kind of a photograph. I'm looking right now. Yeah, the USA
4 article has a family photograph of son, father, and mother.

5 Q No other photographs that you've reviewed though,
6 correct?

7 A Not that I recall, nope.

8 Q Okay. Is there any document, item, or material that
9 you've requested in connection with your review that you have
10 not been provided?

11 THE REPORTER: I'm sorry, I didn't hear --
12 I didn't hear the very first part. I'm sorry.

13 MR. EDWARDS: I didn't either.

14 MR. McINTOSH: Sorry. Let me repeat that.
15 Thanks for letting me know.

16 Q (BY MR. McINTOSH) Is there any document, item, or
17 material that you have requested in connection with your review
18 that you have not received?

19 A I had made the comment to the Plaintiff's attorney
20 that I would be willing to review the autopsy glass slides. We
21 covered that topic. I have not reviewed them, but I would
22 certainly be willing to review them.

23 Even as I say that, the findings of asthma are
24 systemic. And it is unlikely that I would find any compelling
25 findings of asthma on any other slides of the lung than the

1 ones I've already seen.

2 That is why I feel comfortable stating that, while I
3 am well aware that I've not reviewed the Barnhart autopsy
4 slides, it is unlikely that I am going to find any evidence of
5 the systemic disease, asthma, present on her slides if they
6 were not present on the Cyril Wecht slides.

7 Q So you've requested the slides from Dr. Barnhart; is
8 that correct?

9 A I don't -- insomuch as I've said I'd be happy to
10 review them, yeah, that counts as a request. But you
11 understand the nature -- it's not a demand or an ultimatum.
12 I've just said that, you know, it would be prudent for me to
13 review slides.

14 As I've said to you, I have reviewed numerous slides
15 of the lungs. And at this point, it is my professional opinion
16 that additional review is unlikely to reveal anything in the
17 way of asthma, because I have seen multiple sections of lung,
18 and this is a systemic disease and is not present focally.

19 That is to say, it is extraordinarily uncommon that
20 you would find evidence of asthma on one slide that you didn't
21 find on all of the others.

22 Q Doctor, at this -- at this juncture, do you feel that
23 you have been provided with sufficient factual materials in
24 order to form your opinions in this case?

25 A Yes, I do. And that's -- that's clearly inherent in

1 the fact that I issued an opinion. But I will go further to
2 reaffirm that, yes, when I issued the opinion, I believe that I
3 had everything necessary to issue that opinion.

4 Q Have you ever personally spoken with Kelli Goode,
5 Mr. Goode's widow?

6 A No.

7 Q Have you ever received any information, in writing or
8 otherwise, from or authored by Mrs. Goode concerning the events
9 of July 18, 2015?

10 A Not that I recall, no. If it's not in this package,
11 and I don't recall anything in that package, I don't think I've
12 seen anything from her.

13 Q Have you communicated directly with any eyewitnesses
14 to the events underlying this lawsuit?

15 A None whatsoever.

16 Q Doctor, you were briefly asked earlier about when you
17 were first contacted in connection with your review of this
18 case. Can you provide me with an approximate date of when you
19 were first contacted?

20 A It was probably in May or early June.

21 Q Of this year?

22 A Yes.

23 Q You testified earlier concerning a legal chat room
24 where inquiry was made. Do you know the name of that legal
25 chat room?

1 A Nope.

2 Q Do you know the number of the individual who worked
3 with you 20 years ago that you testified to earlier?

4 A I remember her first name. It was Susan.

5 Q Doctor, in your report, under the "Factual Predicate"
6 section on Page 2, you identify that Mr. Goode placed some LSD
7 on his palm. What is the source of your understanding that
8 Mr. Goode placed LSD on his palm?

9 A I don't recall that specifically, and I haven't
10 referenced that.

11 Q Do you have any understanding as to the amount of LSD
12 consumed or injected by Mr. Goode?

13 A I do not. And, as a forensic pathologist, I would
14 tell you that the dosages are frequently nonuniform so that it
15 would be difficult, even for the person who sold the drug, to
16 determine the exact quantity of LSD that was present and the
17 dosage given to any of the individuals who purchased it.

18 Q Do you have any understanding as to the source of the
19 LSD that Mr. Goode ingested or consumed?

20 A Other than generally speaking, it was at or near a --
21 a concert. I have no names of any drug dealers.

22 Q Do you have any knowledge who, if anyone, is
23 currently in possession of any of the remainder of the batch of
24 LSD that Mr. Goode ingested or consumed?

25 A I do not know.

1 Q Do you know if that LSD has ever been tested?

2 A I do not.

3 Q Are you aware that Mr. Goode ingested LSD on two
4 previous occasions in 2008 and 2013 which resulted in him being
5 hospitalized?

6 MR. EDWARDS: Objection to the form.

7 A I haven't received any medical records about
8 admissions. Although, I'm generally aware that this was not
9 his first time with LSD.

10 Q (BY MR. McINTOSH) Would that make any difference in
11 your conclusion you've reached in this case?

12 A No.

13 Q I believe you testified earlier, Doctor, that you are
14 aware that Mr. Goode, on the toxicology report, had marijuana
15 in his system; is that correct?

16 A I'm gonna get that in front of me right now.

17 Q My question is this, Doctor: Is there any particular
18 reason why you failed to reference his use of marijuana in your
19 report?

20 A I don't think it contributed to his death.

21 Q Doctor, I failed to ask you a question with regard to
22 the LSD. Would you agree with me that Mr. Goode's LSD
23 ingestion led to his encounter with the police, his arrest, and
24 subsequent admission to the hospital?

25 MR. EDWARDS: Objection to the form.

1 A Yes.

2 Q (BY MR. McINTOSH) Doctor, did you find any
3 reference, in your review of Mr. Goode's records from the
4 hospital, that he was acutely asthmatic on July 18, 2015?

5 A No.

6 Q Doctor, is it your opinion that Mr. Goode was having
7 difficulty breathing and in respiratory distress throughout the
8 entirety of his admission to the emergency department?

9 A I have the -- the metric of the pulse oximetry, and
10 it is my belief that his position of restraint did not change.

11 But restate your question one more time, please.

12 Q My question is this, Doctor: Is it your opinion that
13 Mr. Goode was having difficulty breathing and in respiratory
14 distress throughout the entirety of the time period that he was
15 in the emergency department?

16 A I do not know that with certainty, and there's no
17 medical record that gives metrics that would allow me to draw a
18 conclusion.

19 Q Doctor, you were asked questions earlier about the
20 accuracy of the blood oxygenation reading of 90 percent?

21 A I recall those questions.

22 Q Would you agree with me that the healthcare
23 providers, who were present with Mr. Goode at the time of that
24 reading, would be in the best position to assess the accuracy
25 of that reading?

1 A I'd give you a general statement that it is sometimes
2 a lamentation that individuals, looking at a situation with a
3 retrospectoscope, may have a more accurate appraisal of the
4 accuracy of any particular observation.

5 That having been said, I will agree that the
6 physician on scene had the ability to examine this patient and
7 perform additional tests.

8 In that sense, the position -- the physician on scene
9 had the ability to perform a physical examination, auscultate
10 the lungs, order additional testing, which it obviously is
11 superior to my ability, where I only have the one measurement.

12 Q Doctor, do you accept as accurate the nurses'
13 descriptions of Mr. Goode's behavior and condition in the
14 medical records?

15 A With the caveat that I understand that there is a
16 civilian female visitor to the emergency room, which has a
17 divergent observation, I have said that there appears to be
18 divergent opinions as to his behavior and condition.

19 But I've also agreed that there is no timestamp, that
20 I recall, on the civilian female visitor observation, other
21 than the patient was not in a room but on a gurney being
22 transported when the observation was made.

23 So I am aware that there is controversy concerning
24 the specific behavior of the patient, but I also understand
25 that the nurses, you know, have entered their observations at

1 specific times.

2 I understand that's not a definitive answer, but it's
3 also not intended to be a definitive answer, because I
4 understand there's a controversy.

5 Q Doctor, can you identify for me any entries in the
6 medical record as to Mr. Goode's condition and behavior which
7 you believe to be inaccurate?

8 A I cannot.

9 Q Doctor, you -- you mentioned a moment ago the
10 witness. Am I correct that you're speaking as to Janet Tharp?

11 THE REPORTER: As to who? Janet?

12 MR. McINTOSH: Tharp.

13 THE REPORTER: Oh.

14 MR. EDWARDS: Tharp, T-H-A-R-P.

15 A Yes.

16 Q (BY MR. McINTOSH) And you have reviewed her
17 deposition, correct?

18 A Correct.

19 Q Do you recall, from your review of that deposition,
20 how long Mrs. Tharp personally viewed Mr. Goode as he was
21 wheeled by in the hallway?

22 A I don't have a metric, but it was my belief that the
23 encounter was brief and only amounted to the period of time it
24 took to pass her by.

25 Q In light of the limited time period that she observed

1 Mr. Goode, does that change your opinions as to the weight of
2 her testimony?

3 A No.

4 Q Doctor, are you aware of any gross or microscopic
5 pathological evidence that Mr. Goode experienced asphyxia on
6 July 18, 2015?

7 A No. I am aware of the observation of hyperinflation
8 and collapse, but I do not use that as a criteria for asphyxia.

9 Q So the answer would be "No," correct?

10 A It is "No," and that's the reason it's "No."

11 Q Doctor, do you know whether this case has been
12 scheduled for trial?

13 A I asked that question, and it's my understanding that
14 there may be a trial in June of next year. But, again, I'm not
15 the right person to ask about that.

16 Q Have you been requested by counsel to appear at
17 trial?

18 A They didn't make that specific request, but I infer
19 that from -- why else would they be paying me?

20 Q Doctor, you were posed a question earlier as to
21 whether or not -- if the blood oxygenation reading of
22 90 percent were not accurate, whether that would change your
23 opinions, and I believe your response was that it would not.

24 A Correct.

25 Q Can you explain to me why that would not change your

1 opinion?

2 A The literature regarding this maximal restraint
3 characteristically does not have metrics of oxygenation of the
4 blood, and yet the forensic literature still accepts this as a
5 diagnosis. So that in most cases in which this diagnosis is
6 made, there are no metrics. There is no measured oxygenation
7 of the blood.

8 I merely reiterate that, while literature with which
9 we are all familiar, has been presented so as to challenge my
10 opinion, there is at least one metric in this case which
11 appears to be at odds with the published literature, and I
12 think I've explained that in -- at length.

13 MR. MCINTOSH: Thank you, Doctor. I have
14 no further questions.

15 MR. EDWARDS: Do you have anymore?

16 MR. PHILLIPS: Not at this time.

17 MR. EDWARDS: Doctor, I have --

18 MR. MACAW: This is Matt --

19 MR. EDWARDS: Oh, I'm sorry, go ahead.

20 MR. MACAW: This is Matt Macaw for
21 Southeastern Emergency Physicians. I have no questions.

22 MR. EDWARDS: All right. I do have a few
23 questions for the Doctor. Let me see these, please.

24 //

25 //

1 EXAMINATION

2 BY MR. EDWARDS:

3 Q I'm looking at the medical reports, and you were
4 asked by Mr. Phillips, and maybe Mr. McIntosh also, about any
5 indication in the medical records about respiratory distress.
6 Do you recall that?

7 A Yes.

8 Q Look on Page 7 of the Baptist records and read what
9 you've marked there.

10 A I believe I already responded to one of the questions
11 initially, that the diagnosis was made by Dr. Oliver on Page 7
12 of respiratory failure.

13 And I believe the attorney followed up on that
14 question by asking whether that diagnosis was made at or about
15 the time of the cardiopulmonary arrest.

16 Q Okay. Is respiratory failure an indication of
17 respiratory distress?

18 A I -- no, in truth I equate those. Yes, I do.

19 Q Doctor, you were also asked some questions by
20 Mr. Phillips about Haldol. Do you remember that?

21 A I do.

22 Q Are you aware that the FDA issued a black-box warning
23 concerning Haldol, indicating that it might cause problems
24 with -- and you may have to help me -- with Torsades de
25 Pointes?

1 A That's a cardiac -- that's a type of cardiac
2 arrhythmia, Torsades de Pointes.

3 Q And QT prolongation?

4 A Again QT prolongation is a specific change in the
5 electrocardiograms. And -- and I have spoken to the issue of
6 respiratory depressant of lorazepam. I believe I stated that I
7 had a -- a discomfort of intravenous administration of Haldol.

8 But, in this particular case, I read the description
9 of the physician -- of the police officer as irregularity in
10 breathing. And so that is why I tend to favor the irregular
11 respirations as a consequence of the respiratory depressant
12 effect of lorazepam, and I have not focused on the potential
13 arrhythmogenic nature of intravenous Haldol. Although, I
14 believe I indicated that I had a level of discomfort with that
15 intravenous administration.

16 Q And is that because haloperidol, Haldol, is not
17 approved for intravenous administration?

18 A And its association with, you know, problematic
19 issues revolving around the heart.

20 Q Okay.

21 MR. EDWARDS: Let's mark that as the next
22 exhibit, please.

23 (Discussion off record about numbering of
24 exhibits, and Exhibit 17 marked for
25 identification.)

1 MR. EDWARDS: Doctor, I --

2 MR. PHILLIPS: Let me just note an objection to
3 Exhibit 17 as being beyond the scope of his disclosure
4 opinions, but go ahead.

5 Q (BY MR. EDWARDS) Doctor, in the context of excited
6 delirium, there is always, quote, sudden death, unquote; is
7 that accurate?

8 MR. PHILLIPS: Objection, leading.

9 (Mr. Gass leaving.)

10 A The description in the literature, as well as the --
11 the -- the descriptions in the literature indicate that it is
12 usually the case that the individuals attending the -- the
13 individual in excited delirium are surprised at the change in
14 medical status. So, yes.

15 Although, as I've indicated, in an individual who's
16 developing exhaustion and respiratory acidosis, I'm not sure I
17 would use the term it's unexpected, because I already know they
18 have a physiologic challenge.

19 Q (BY MR. EDWARDS) So would you classify Troy Goode as
20 a sudden death?

21 A Well, I haven't because I believe that the causes of
22 his demise were prolonged over a period of many, many, many
23 minutes. I think up to 90 minutes.

24 Q And that's not sudden death?

25 A That's not my definition.

1 Q Okay. Now, you've been asked repeatedly about
2 Dr. DiMaio.

3 A Yes.

4 Q And -- and Dr. DiMaio has written on the subject of
5 excited delirium; is that correct?

6 A Yes.

7 Q Okay. I wanna ask you about something from
8 Dr. DiMaio's "Forensic Pathology" book, and where he's talking
9 about certifying the cause of death related to excited
10 delirium.

11 And let me read this to you and then ask you: "First
12 is to sign out the cause of death as 'excited delirium' and
13 then list 'struggle,' 'cocaine intoxication,' etc., as
14 contributory causes."

15 Now, my question is: Do you agree with that?

16 A As I've said, there are lumpers and splitters in
17 medicine, and I recall that DiMaio has specified the
18 methodology in which he would sign out some of these cases.

19 So, you know, in some sense, I understand why he is
20 saying that. In this -- in this instance, I agree -- as I've
21 stated, there are likely multiple physiologic challenges to
22 this individual. I specified those.

23 But I believe their -- their fundamental origin was
24 substantially related to his maximal restraint hogtie position.
25 But I've also told you that the last or ultimate or, you know,

1 end physiologic challenge was an administration of intravenous
2 lorazepam, but you can't ignore the underlying physiologic
3 condition in which, you know, an individual receives the
4 intravenous lorazepam.

5 A person with exhaustion and metabolic acidosis is
6 assuredly going to respond in a different fashion than a person
7 who is at rest and comfortable and has no other physiologic
8 challenges.

9 Q I understand. My question, and I'll simplify it for
10 you: Doctor, Dr. DiMaio says for a forensic pathologist or to
11 a forensic pathologist, "If you find a death to be from the
12 diagnosis of excited delirium, you put that in the report"?

13 A I -- okay, I didn't understand. Yeah, if you have a
14 diagnosis, you just say it.

15 Q Right.

16 A If you're diagnosing excited delirium, then you just
17 write it down.

18 Q Did Dr. Barnhart write down "excited delirium"?

19 A Well, as we all know, the answer to that question is
20 "No."

21 Q And did Dr. Barnhart expressly put a finding in her
22 report that ruled out excited delirium; that is, of
23 hyperthermia?

24 A As I've outlined, there are a number of metrics
25 associated with excited delirium, and Dr. Barnhart's report

1 excludes those metrics, which I've already detailed.

2 Q Okay. You were also asked about some authorities --
3 let me see if I have those. You were asked about some
4 authorities on whether or not putting somebody in a hogtie and
5 in a restraint or -- I'm sorry -- in a -- a prone position
6 causes the diminution of respiratory function. Do you recall
7 those questions?

8 A We had extensive discussions on that topic.

9 Q Yeah. Okay. I beg your pardon. I've gotten my
10 stuff out of whack here.

11 Okay. And you were asked about some European
12 studies. Is the University of Vienna a reputable academic
13 institution?

14 A I have no personal knowledge of the University of
15 Vienna, other than to say that one of the heroes of pathology
16 comes from Vienna. But that was in the 1700s.

17 So I have no personal knowledge of the University of
18 Vienna. I would have to evaluate each opinion issued by one of
19 their faculty members, you know, one-by-one.

20 Q Well, let me ask you about an opinion from the
21 University of Virginia -- Vienna. "Hobble restraint in the
22 prone position leads to a dramatic impairment of hemodynamics
23 and respiration."

24 MR. PHILLIPS: Let me object as beyond the
25 disclosure.

1 Q (BY MR. EDWARDS) You agree or disagree?

2 MR. McINTOSH: Join.

3 Q (BY MR. EDWARDS) You can answer. You -- you
4 can --

5 A Obviously, it is my opinion that in this case the
6 restraints contributed likely for more than one reason, both
7 respiratory and metabolic acidosis, to the death. So I
8 obviously do not contest that opinion.

9 Q Okay. And from UCLA, a report of -- from
10 December 1992 to December 1998, there were 20 cases of excited
11 delirium deaths associated with struggle and restraint that
12 were witnessed by EMS personnel.

13 All sudden death victims in the series had been
14 hobble-restrained. Are you familiar with those figures?

15 MR. PHILLIPS: I'll object to it being beyond
16 the disclosure to the testimony of counsel and lack of
17 foundation.

18 MR. EDWARDS: Okay. You may answer.

19 MR. McINTOSH: Join.

20 THE REPORTER: Wait a minute. Who's
21 saying that on the other end?

22 MR. McINTOSH: This is John Mark McIntosh
23 saying "Join."

24 THE REPORTER: Okay, thanks.

25 MR. DILLARD: This is Brad Dillard. Are

1 we agreeing that one objection by defense counsel will suffice
2 for all? Or do we need --

3 MR. EDWARDS: Yeah, that's fine.

4 MR. DILLARD: -- individual --

5 MR. EDWARDS: Yes.

6 MR. DILLARD: Thank you.

7 A As I've said, you know, this is not the first time
8 that -- that either I or any forensic pathologist has crossed
9 this bridge, and that there are numerous individual articles
10 that ultimately led to the opinions stated in the subsequent
11 hard-bound medical textbooks.

12 So that I am aware that the authors of those
13 hard-bound medical textbooks did not issue their opinions in a
14 vacuum. There are numerous iterations of concerns regarding
15 this issue. So that, as you bring them up one-by-one, those
16 constitute merely the body of literature which led to the
17 summation of those concerns in the published hard-bound texts.

18 Q (BY MR. EDWARDS) Is it your opinion that Mr. Goode
19 went from breathing adequately to (snapping fingers) immediate
20 cessation of breathing, or was there some stage of diminution
21 of breathing?

22 A There is -- there are always -- well, in this case,
23 it is my opinion that there were stages of diminution. I
24 believe those -- that progress of diminution was described by
25 the police officer, and I can either reiterate that from his

1 testimony, or we can just --

2 Q That's fine.

3 A -- accept my summary and move on.

4 Q Is -- is the -- is the change in respiration the
5 reason that there should be a medically-trained person in the
6 room with somebody that has received chemical restraints under
7 the circumstances of Troy Goode?

8 MR. PHILLIPS: I'll object as calling for a
9 standard-of-care opinion, lack of qualification, foundation,
10 and beyond the disclosure.

11 Q (BY MR. EDWARDS) You may answer.

12 A Of course, the answer is "Yes."

13 Q All right.

14 MR. EDWARDS: No further questions.

15 MR. PHILLIPS: Would you give me the cite to the
16 two articles you mentioned?

17 MR. EDWARDS: Yes, I'll -- actually, I'll --

18 MR. PHILLIPS: Or do you wanna just email
19 them to me?

20 MR. EDWARDS: No, let's just mark them.
21 Why don't we do that, so you'll have them.

22 MR. PHILLIPS: All right.

23 MR. EDWARDS: Okay. So --

24 MR. PHILLIPS: Subject to my objection,
25 that's fine.

1 MR. EDWARDS: I understand. Okay. So the
2 Vienna article is "Cardiorespiratory consequences to hobble
3 restraint."

4 MR. PHILLIPS: That will be Exhibit 18?

5 THE REPORTER: Uh-huh.

6 MR. PHILLIPS: And then the UCLA article will be
7 Exhibit 19?

8 THE REPORTER: (Nodding head.)

9 MR. EDWARDS: Yes, the article by Stratton.
10 et al., from UCLA.

11 MR. PHILLIPS: Any other questions from
12 anybody on the phone?

13 MR. McINTOSH. No further questions here.
14 This is John Mark.

15 MR. DILLARD: This is Brad Dillard. No
16 questions.

17 MR. EDWARDS: All right. We're good. We're
18 hanging up. Thank you.

19 MR. PHILLIPS: Bye, fellas.

20 MR. EDWARDS: Oh, we're reserving signature.

21 (Deposition concluded at 2:30 p.m., and
22 Exhibits 1, 2, 3, 4, 5, 6, 7, 8, 9, 11,
23 12, 14, 15, 16, 18, and 19 marked for
24 identification.)

25

1 SIGNATURE OF WITNESS

2 I, **MICHAEL F. ARNALL, MD**, hereby certify that I have
 3 read the foregoing transcript of my deposition taken on the
 4 19th day of October, 2017, and that I have listed all
 5 corrections thereto on the following page herein. Except for
 6 said corrections, it is a true and correct copy of my testimony
 7 given on that day.

8

9

MICHAEL F. ARNALL, MD

10

11 () NO CORRECTIONS

12 () CORRECTIONS ATTACHED

13

14

15 STATE OF COLORADO)
) ss.
 16 COUNTY OF)

17

18 Subscribed and sworn to before me this _____ day of
 19 _____, 2017.

20

21

 Notary Public

22

23 My commission expires: _____

24

25

1	PAGE	LINE	CORRECTION	REASON
2	_____	_____	_____	_____
3	_____	_____	_____	_____
4	_____	_____	_____	_____
5	_____	_____	_____	_____
6	_____	_____	_____	_____
7	_____	_____	_____	_____
8	_____	_____	_____	_____
9	_____	_____	_____	_____
10	_____	_____	_____	_____
11	_____	_____	_____	_____
12	_____	_____	_____	_____
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

1 STATE OF COLORADO)
2) ss.
3 COUNTY OF LA PLATA)

4 I, Sherry L. Rowe, a Registered Merit Reporter,
5 Registered Professional Reporter, and Certified Shorthand
6 Reporter, DO HEREBY CERTIFY that I did administer the oath to
7 the witness herein, **MICHAEL F. ARNALL, MD**, prior to the taking
8 of this deposition; that I did thereafter report in
9 stenographic shorthand the questions and answers set forth
10 herein, and the foregoing is a true and correct transcription
11 of the proceedings had upon the taking of this deposition.

12 I FURTHER CERTIFY that I am neither employed by nor
13 related to any of the parties or attorneys in this case, and
14 that I have no interest whatsoever in the final disposition of
15 this case in any court.

16 I FURTHER CERTIFY that I have retained the Original
17 Copy of this deposition to seal and deliver to
18 Mr. Marty R. Phillips, Esq.

19 WITNESS MY HAND AND SEAL this 20th day of November,
20 2017.

21

22

SHERRY L. ROWE, CSR, CCR, RPR, RMR

23

24 MY COMMISSION EXPIRES: 3/22/2021

25

**DEPOSITION OF
MICHAEL F. ARNALL, MD**

10/19/17

CIVIL ACTION NO. 3:17-cv-060 DMB-RP

**KELLI DENISE GOODE vs
THE CITY OF SOUTHAVEN, et al.**

United States District Court
Northern District of Mississippi
Oxford Division

ANIMAS REPORTING SERVICE
animas@animas.net

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 1

A	accept 40:21	108:3,7 128:2	163:10	89:6,15 100:11
A-R-N-A-L-L	41:20,23 91:1	128:6 147:11	address 10:3	113:2
7:8	163:12 175:3	151:6 152:1	96:9 103:18	admonitions
a.m 2:9 47:18,19	accepted 10:8	169:16 171:5	104:10	89:19
106:3	91:8 107:12	173:7	addressed 84:11	Adults 99:7
a/k/a 1:14	accepting 42:10	acidotic 53:10	96:3	advances 106:17
abdomen 45:11	accepts 166:4	53:15 128:15	addresses 84:2	advantage 27:14
abdominal 85:5	accident 57:20	acknowledged	87:13	75:2
85:6	accidentally	103:8	adequately	adverse 137:1
ability 15:19	110:16	acrimonious	174:19	advertised
27:17 51:22	accidents 125:2	130:4 134:15	adjective 32:15	122:20 131:17
59:4 89:4	accommodate	134:17,21,23	adjectives 32:14	advise 105:24
129:5 163:6,9	15:17	acrimony 130:8	administer 60:8	advised 7:20
163:11	account 35:11	acted 128:11	60:13 154:3	affect 4:19 43:25
able 36:21 51:24	35:14,15,16	acting 22:15	179:6	44:19 45:8
52:3 64:4,23	36:8,11 41:7	30:15 39:11,19	administered	47:12 63:4
101:4 133:2	101:10 153:24	41:9 43:17	39:1 146:21	64:8,25
148:21 149:3	accounts 30:21	60:21	administering	affixed 58:11
152:18 153:3	35:10 39:23	action 1:4 21:23	60:24	agency 135:18
155:5,17	accuracy 112:15	22:16 23:5	administration	Aggressive 99:6
abnormal 19:4,6	162:20,24	36:15 137:1	23:2 25:13	ago 7:10 20:4
19:19 34:13	163:4	actively 129:23	55:15 60:3	115:18 116:13
abnormalities	accurate 36:1,1	activity 37:7	61:3 98:20	160:3 164:9
17:21,23 34:9	37:22 40:23	42:2 44:10,19	126:4,9 150:19	agree 14:2 20:11
34:22	42:1 77:20	44:21 45:9	151:8,12,15	21:8,14,17
abortion 133:8,9	112:10,14,22	52:15 113:11	153:25 168:7	23:24 25:22
abrasions	113:4,7,9,21	144:5	168:15,17	28:9 32:9
145:25 146:2,5	113:23 114:1,4	acute 19:25	171:1	37:14 44:14,17
absence 17:10	114:5 122:17	40:15 68:16	admission	46:2 47:10,13
18:8 60:10	122:18,19	acutely 162:4	161:24 162:8	50:10,12,12
127:13	163:3,12	Adams 129:8	admissions	51:3,13,17
absent 18:16	165:22 169:7	130:13 131:21	161:8	54:16 58:20
abstract 64:13	acidic 51:9	132:22 134:11	admit 102:18	59:8 65:12
64:16 65:6,17	acidosis 22:10	134:12 135:3	145:4	68:8,9 69:11
66:7,10,14	34:14,16 41:15	Adams' 23:16	admitted 61:12	69:14,20,24
abundance 9:18	42:23,25 43:4	add 152:4	112:17 145:7	70:6 73:8 74:9
abuse 5:10	45:14 51:4,15	added 13:6	admonish 88:10	75:12,21 76:1
40:15 83:20	52:6,8,11,12	addition 25:7	89:9	76:2,2 79:13
94:24	52:15,17,20	36:10 42:20	admonished	79:15,22,23
academic	53:1,3 54:3,21	71:22 123:20	55:5,10,14	83:2,5,5 87:6
172:12	56:6,11,19	126:2	admonishments	87:11 96:10
academy 143:21	60:10 86:18	additional 96:6	43:3	98:5 99:20
accelerated	98:7,17 100:23	120:25 122:5	admonition	100:6,8 101:4
46:22,24	101:14 102:18	158:16 163:7	83:22 84:3	101:6,24

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 2

102:13,13,23 103:12 104:14 106:15 108:20 114:13 115:5,9 127:11 144:9 147:8 148:11 150:10 161:22 162:22 163:5 170:15,20 173:1 agreed 54:22 61:11 69:23 87:2 163:19 agreeing 174:1 agreement 20:18 Ah 32:3 ahead 76:13 82:14 85:18 109:17 122:6 141:20,23 142:12 152:19 152:20 166:19 169:4 ahold 139:4 aid 124:12 air 51:23,24 airway 17:8,12 airways 16:15 19:16 al 5:14,17 6:5,9 176:10 al.³ 75:14 albeit 48:19 alcoholic 52:25 53:7 alive 133:12 154:12,15 alkalosis 128:5 allegation 148:5 allow 10:1,19,21 18:11,16,22 19:15,18 50:4 143:16 144:10 162:17	allowed 10:8 11:9 149:24 allows 18:9 alter 38:11 altercation 140:7 altered 33:3,24 47:10,11 48:20 ambiguity 154:19 ambulance 143:24 147:3 148:14 American 6:7 97:1,12 amount 45:8 119:9 150:6 160:11 amounted 164:23 analyzed 18:1 anatomic 8:2 ancillary 36:20 and/or 107:9 ANIMAS 2:5 ankle 85:14 ankles 85:13 answer 18:17,20 18:21 21:23 43:12 45:20 48:23 56:3 59:22 66:17 71:14 76:1,9 76:12,14,16 77:20 94:6 96:16 110:7 113:16,18 136:5 147:18 152:15 164:2,3 165:9 171:19 173:3,18 175:11,12 answered 45:18 113:25	answering 76:17 answers 179:9 anterior 85:5 anticipate 77:4 144:11 anybody 14:23 141:18 176:12 anymore 166:15 apologize 54:11 appallingly 107:22 apparently 110:5 113:10 115:21 134:19 appear 20:17 41:8 65:9,11 165:16 appearance 8:18 16:16 19:4,10 appearances 4:3 8:5 appeared 128:22 appears 39:10 39:25 108:12 122:21 149:13 163:17 166:11 applied 44:24 49:16,20 77:25 79:10 80:3 149:14 150:7,9 applies 101:9 143:19 apply 57:15 81:14 applying 77:5 appointed 135:18 appointment 135:22 appraisal 163:3 appreciate 141:17 appropriate	42:21 58:16 126:12 128:21 approved 168:17 approximate 159:18 approximately 67:8 April 4:21 69:6 arbitrarily 27:25 area 8:1,4 11:11 11:13 132:8 areas 8:9,11,21 127:3 argue 90:6 148:23 arguing 90:5 91:4 argumentative 27:25 148:15 arm 145:13,23 146:6 arms 46:11 47:4 Arnall 1:23 2:3 4:4 7:1,8,9 81:18 119:17 119:19 128:23 177:2,9 179:7 Arnall's 5:19 arrest 34:2,10 40:16 52:5,9 52:10 85:4 150:21 151:14 151:16,20 153:11 161:23 167:15 arrested 35:9 130:6,10 134:23 136:12 136:21 arrhythmia 18:23,25 19:7 19:9 127:15	168:2 arrhythmias 19:3 arrhythmogenic 168:13 arrival 39:16 arrow 120:24 121:2 arterial 51:10 53:14 article 63:3 64:5 64:17,24 65:7 65:20 66:2,3 66:16,20 67:11 67:22 68:10 69:10,21,22 70:17 71:8,14 73:24 74:6,25 97:21 99:4,15 101:25 106:8 106:17 108:22 109:7 110:4,14 124:3 157:1,2 157:4 176:2,6 176:9 articles 26:5 74:1 92:15,20 105:6 106:7,8 106:13,15 108:8 109:13 109:16 110:10 117:3 123:14 123:22 124:5,7 174:9 175:16 aside 17:19 98:12,13 asinine 113:1 asked 9:20 20:13 21:12 39:3 76:14,16,18 105:3 113:14 115:1,14 116:3 116:20 118:10 120:15 121:14
---	---	--	---	--

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 3

121:20 124:16	assess 23:13	17:20 18:9	95:8 99:10,12	12:3 17:13
126:3,22,23	24:20 36:19,22	47:25 157:23	authored 159:8	20:8,16,25
127:6 132:10	54:23 162:24	157:25 158:5	authoritative	25:25,25 39:21
135:1,13	assessing 23:20	158:17,20	73:8 74:8	56:23 61:14
139:22 144:11	41:7 42:7	asthmatic 162:4	authorities	70:22 81:1
149:7 152:13	67:18	Ativan 13:6,10	172:2,4	94:13,18 95:23
156:6 159:16	assessment	13:16,24 14:2	authority 73:5	96:2,23 101:21
162:19 165:13	35:25 36:2,7,9	20:6,14 21:20	135:23	112:12,13,23
167:4,19 170:1	36:23 41:14	21:23 22:23	authors 65:5	113:23 114:7,9
172:2,3,11	88:21	25:3,6,8,13,15	88:12 92:22	115:14 116:3
asking 46:7 79:6	assign 54:8	25:24 41:11	174:12	144:15 158:3
80:13 111:3	assigned 133:11	59:21 60:3,6	automobile 33:7	161:3,8,14
118:20 167:14	assignment 28:8	61:4 89:1	autopsies 91:20	163:23 165:4,7
asks 18:18 141:6	assist 52:22	153:25	106:24 120:1,2	167:22 174:12
aspect 42:9	assistant 70:23	attach 15:9	134:12,12	awkward 107:19
59:11 61:18	associated 4:23	attached 47:5	139:16	108:11
aspects 8:23	6:7 24:10 48:2	177:12	autopsy 12:9	awkwardly
90:7 108:14	48:4 52:8	attempt 147:19	14:12 15:1	106:23
143:12	59:18 70:2	150:6	17:14 19:12	
asphyxia 53:20	74:8 80:16	attempted 36:11	20:2,10 25:17	B
54:17 61:15	82:3,7,8 86:25	96:9 134:20	26:20,24 27:15	b 3:3 4:14 5:1
72:11,13 75:13	87:5 93:25	143:15	27:16,22 40:7	6:1 148:2
80:2 83:19	94:14,18 95:7	attend 17:11	47:23 48:7	back 22:3 37:2,3
84:1 95:24	97:9 98:8	35:23 144:13	115:10,20	37:17 44:24
96:4,5,12,23	107:13 109:15	attended 143:21	118:18 119:23	45:2,5 47:17
97:23 110:22	109:24 171:25	attending 54:25	120:6,8,11,13	47:18 49:16,20
111:13,23	173:11	169:12	132:8 133:11	50:1,24,25
112:2 138:3	association 23:9	attends 8:16	133:14,17,24	63:17 64:2,18
150:18,20	23:19,20,22	attention 153:24	133:25 134:2	77:17,25 78:5
151:4,9,13	24:22 97:8	attorney 10:1	135:25 137:20	78:18,20 84:8
165:5,8	111:21,22	26:4 120:7	137:22 139:24	85:13 99:18,25
asphyxial 83:17	168:18	138:11 139:23	146:1,1,4,8,15	105:1,8,9
asphyxiation	assume 78:7	157:19 167:13	146:17,25	106:3,5 116:12
98:3	112:9	attorneys 7:10	157:20 158:3	121:13 131:16
assassinate	assumptions	9:14,20 59:9,9	available 14:25	135:12 144:5
134:20	112:25 123:18	59:19 119:4,10	62:18,21 68:21	149:8,14,19
assert 62:4	assure 58:25	135:19 139:25	71:25 80:7	150:7 155:12
77:18 80:12	91:21	179:13	149:5	background
asserted 109:24	assuredly 22:12	attributable	Avenue 2:15 3:9	48:9 100:4
126:8	33:20 34:14	125:1	average 92:15	bad 30:7 33:15
asserting 146:11	60:10,11 171:6	audio 135:7	92:21,22,25	39:17 48:11
assertion 41:9	asthma 16:9,9	auscultate 163:9	avoided 68:17	54:11
100:17 145:11	16:12,21,21,23	author 65:24	152:17	BAGGETT 1:12
147:25	16:25 17:3,19	74:9 88:11	aware 10:5,11	2:19

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 4

Baker 38:6	begins 31:23	113:12 115:5,9	93:5 148:7	142:24 173:25
ball 147:19	62:8	117:5 122:7	bite 145:12,14	176:15
BALLIN 2:14	behalf 1:8	125:8 127:23	145:22 146:3,6	Bradley 2:21
2:14	behaved 42:6	128:1,2 130:17	146:8	break 47:15,16
Baptist 1:17 3:1	behavior 30:2,5	143:12 144:2	bitten 145:20	152:24 155:10
31:20 40:9,12	30:25 31:1,5	145:15,24	black-box	155:15
104:18 143:24	31:10 32:8,13	146:1 147:10	167:22	breath 52:3
147:4,14,16	33:25 37:14	149:9 151:19	blank 120:22	breathe 45:3
148:11 149:10	43:22 77:3,7	153:8,12,13	blood 25:18	46:16 51:22
153:2 155:5,16	77:16,19 78:4	154:14 159:2	34:15 47:1	breathing 23:5
167:8	78:7,12,14,17	161:13 164:7	51:8,9,10	34:23 39:25
bar 140:7	100:14,18	165:23 167:10	53:14 66:3	52:16 69:19
Barnhart 15:1,4	128:19,22	167:13 168:6	128:15 162:20	82:24,25 83:1
20:6 26:16,17	163:13,18,24	168:14 169:21	165:21 166:4,7	88:22 89:3,10
26:18 96:21	164:6	170:23 174:24	blowing 52:13	89:10,17,20
117:16 120:10	beings 58:14	believed 21:3	52:18	114:15 115:3
158:3,7 171:18	belief 133:2	100:19 113:7	BMH-D 25:12	162:7,13
171:21	162:10 164:22	believes 58:15	BMI 92:16 93:4	168:10 174:19
Barnhart's 20:2	believe 14:1,16	BELL 3:14	BMJ 4:21	174:20,21
20:3 61:14,21	14:19 22:5,14	Belle 129:21,23	board 137:4	bridge 174:9
171:25	22:17 23:7,11	129:25	board-certified	brief 78:24
base 55:4	23:15,16 26:6	bellybutton	8:2,9 11:25	164:23
based 5:17 19:3	26:12 27:17	132:9	96:20,22	briefly 89:25
19:10 29:18	28:4 29:9,14	best 26:16 37:6	body 17:17	159:16
34:17 38:9,18	29:17 30:12	50:12 56:14,21	49:13 79:20	bring 62:17,21
53:2,9,10	31:4 33:4	60:15 61:1	83:24 85:2	63:14 68:20
55:25 99:16,23	35:20 36:25	148:18 162:24	86:11,16	116:3,21
100:23 106:10	37:5,17 38:1,5	beta 48:25 49:7	174:16	118:10 121:14
113:5,11 114:3	38:7,20 40:6	better 50:7	body's 83:20	174:15
127:8 143:16	41:25 42:4,5,5	beyond 40:1	BOND 1:12 2:19	British 69:2
150:16	43:21 53:24	169:3 172:24	book 72:18 79:5	Broadway 3:19
bases 104:12	54:4,25 55:11	173:15 175:10	81:23,25 88:12	bronchi 16:15
basic 51:9	55:16,18,20,24	bicarbonate	90:23 109:17	Broomfield
basil 93:4	56:3,19 58:10	22:2 52:5	170:8	134:9,11,13
basis 5:20 17:3	62:1,5 72:15	big 91:15	books 81:21	brother 140:1
25:2,5 51:14	74:13,13,18	bill 122:5,17	90:4	brought 12:6,16
52:22 58:1,6	76:9,20 77:2	bills 122:1,9,17	bottom 31:20	26:6 56:23
124:23	77:14,20 78:3	122:18	149:10	58:4 62:20
batch 160:23	78:11,12,15	binder 29:12	Boulder 129:6	81:2 84:6,14
bdillard@mit...	84:2 98:6,9,15	117:1,22 118:2	133:5,8 134:3	105:12 118:17
2:24	98:17 101:12	123:10	bouncer 140:9	126:1,16
beat 155:24	101:15 102:3	bindings 85:14	box 15:21	BRUCE 1:15
beg 172:9	102:10,21	biologic 22:16	Brad 141:20,24	2:20
began 27:24	109:19 112:20	bit 46:9 81:1	142:8,12,22,23	buddies 28:14

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 5

bumped 28:16	Cardiorespira...	124:4,6,10	causation 23:10	74:7
Bureau 130:5	6:5 176:2	128:10 129:14	23:19,21	CCR 179:22
business 15:19	care 9:4,23	131:17 133:7,7	cause 8:24,25	Center 129:22
button 65:24	10:10 11:2	134:3,5,6,24	9:1 13:11 14:6	130:3 136:17
Bye 176:19	59:25 61:12,13	137:12,14,15	16:4 18:1 20:9	certain 24:24
C	143:12,23	137:17,20,21	21:4,17 23:23	43:2 116:3
C 2:11	147:15,21	137:22 138:21	27:8 28:2	130:5,22
call 13:8 34:7,24	148:9,12,22,24	138:24 139:2	37:23 53:8	144:12 152:24
56:8 74:8	149:4 154:17	139:22 140:2,2	55:3,7,9,16	156:10
106:21 107:25	154:19 156:8,8	140:6,11,13,21	56:15,18 57:12	certainly 11:9
122:22 129:5	156:12,12,14	140:22,25	57:13,18,24,25	41:23 44:7
129:18 139:23	caregiver 43:1	141:1,9 142:1	58:19 85:24	55:8 56:16
139:24 140:1	carries 43:2	143:4,23 147:5	88:9 91:16	57:13 73:13
153:23	carry 14:19	147:24 148:7	98:2 107:1	80:12 81:10
called 7:2 11:21	carrying 35:2	148:16,22,23	114:22 119:15	93:7 111:24
61:5 70:13	Carson 4:19	149:13 156:25	120:8 127:15	124:7 128:22
72:9 134:7,13	case 7:12,14	158:24 159:18	129:24 134:1,6	129:4,11
calling 175:8	10:9,18 11:3	161:11 165:11	134:19 141:6	130:16 140:13
Camino 2:8	12:5,10 13:24	166:10 168:8	143:5,7 167:23	143:18,19
cancers 8:18	14:9,14 16:5	169:12 173:5	170:9,12	144:8,25
candidly 10:18	19:15 24:4	174:22 179:13	cause-of-death	151:17 152:12
candor 9:25	26:2 27:1,5	179:15	53:18	152:14 157:22
capacity 66:19	28:19,24 30:6	cases 91:16	caused 17:4 30:5	certainty 22:24
66:21 67:1	35:6 53:18	92:25 107:5	33:22 48:20	150:17 153:4
captures 118:4	54:19 55:5,10	112:6 118:16	54:3 56:16,23	162:16
car 30:23,24	59:6,7,10,11	119:10,22,25	61:19 74:13	Certificate 4:10
32:12 43:16	59:24 74:11	120:3,5,16,18	77:3 107:18	certifications
cardiac 18:23	75:2,4,5,6,7,24	124:8 137:17	120:9,9 125:16	137:4
19:4 47:2 52:5	76:8,23 77:13	137:24 138:6,6	147:6 150:17	Certified 2:4
52:9 60:17	80:4 83:12	139:8,17,18	152:6	179:5
88:24 102:2,7	86:2,6 87:25	166:5 170:18	causes 54:12,13	certify 177:2
102:9,11,16,20	90:6,10 93:3	173:10	54:14 55:20	179:6,12,16
102:23 127:15	93:10,16,17	casual 35:2 57:4	85:5 169:21	certifying 170:9
148:17 168:1,1	98:19 103:11	111:8	170:14 172:6	cessation 22:6
cardio-pulmo...	103:19,23	catastrophic	causing 45:13	22:20 23:2
150:21	105:20 110:15	113:4	54:20 61:3	34:23 39:25
cardiomegaly	110:18 111:25	catch 104:18	caution 9:18	52:18 174:20
92:24 93:7	112:9,17	category 54:17	42:21 43:1	challenge 42:23
107:9	113:19 115:10	86:14	56:21 79:25	56:8 151:18
cardiopulmon...	116:18,21	causal 23:13	102:15	166:9 169:18
40:16 52:10	118:12 119:23	92:8	cautionary 43:3	171:1
151:14,16,20	119:24 120:19	causality 23:12	caveat 123:25	challenges
167:15	121:5 122:2,10	24:3,19 54:8	148:4,6 163:15	170:21 171:8
	122:13,23	54:23,24 55:13	caveats 60:1	Chan 75:14 76:3

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 6

76:6,9,20 77:1 77:2,4,8,12,14 78:3,9,13,15 80:24 81:4 87:17 95:19 97:23 144:2 Chan's 76:3 77:12,20 79:15 79:16,23 81:3 81:22 chance 131:7 141:15 change 44:25 47:13 68:12,12 69:16,20 74:9 77:15 80:14 116:19 152:9 153:19 162:10 165:1,22,25 168:4 169:13 175:4 changes 44:25 45:1 74:4 108:3 153:4,4 153:8 155:20 chapter 23:16 82:19 95:24,25 characteristic 146:16 characteristic... 166:3 characterize 32:16 charge 121:20 141:6,8 charges 130:7 133:23 Charlton 1:6 charts 52:22 chat 115:16 139:5 159:23 159:25 check 7:24 121:22,24	chemical 44:20 150:19 151:8 151:12 153:25 175:6 chemically 44:8 44:13 chest 35:3 45:2 child 133:10,11 133:12 child's 133:19 chin 132:9 choices 57:19 choose 27:7 chose 32:16 69:12 chronic 19:25 chronically 131:9 CHW 4:18 12:17 14:20 circles 32:9,12 circumstance 148:8 circumstances 33:21 37:17 61:4 77:13 147:20 175:7 citation 63:2,7 64:22,24 105:9 105:16 108:25 citations 88:7 105:4 110:15 cite 53:25 62:12 64:14 67:25 68:15 69:25 72:4,8 74:25 80:14,19,20,21 92:11,22,24 95:12 98:7 102:4 125:9 146:18 152:15 175:15 cited 24:9 54:4,9 54:19 58:4	62:16,23 72:5 72:17,20 80:7 81:10 92:15 94:13 95:20 98:10 105:5,14 106:7 109:13 110:10 111:2,3 147:9 cites 77:1 85:22 94:22 95:8 98:6 104:21 109:22 110:2 citing 95:15 city 1:12 2:19 91:15 141:25 civil 1:4 59:7 119:10 120:9 137:14,17,17 137:20,24 138:21 139:8 139:17,18 140:11,13,21 140:22,22,24 civilian 34:19 35:15 36:7 41:8 117:16 163:16,20 classified 57:8 58:2 59:21 60:4,5,7 72:6 classify 169:19 claustrophobia 47:11 claustrophobic 32:20,25 33:1 clean 62:24 65:19 clear 34:8 37:8 113:14 142:6 clearly 13:19 30:14,25 32:13 34:13 39:19 55:6 82:3 89:19 92:9	94:7,7 158:25 Clewiston 130:2 clinical 5:16 8:3 12:13 25:12 67:20,23 109:8 112:11 113:6 113:22 114:8 125:16 128:20 clinically 68:6 68:11 69:16 74:12,23 75:20 79:11 80:10 81:24 85:25 99:20 100:1 close 115:3 142:14 closed-circuit 132:7 closely 55:1 107:7 closing 129:24 clues 36:20 CO2 52:13,18 coauthored 26:5 coauthors 26:8 cocaine 107:6,7 107:10 170:13 code 90:15 115:8 collapse 165:8 collection 132:16 college 111:18 colloquially 30:7 39:17 48:11 135:20 color 4:17 118:3 Colorado 2:6,8 9:15 31:13,14 111:19,20 130:14,20 131:4 134:10 135:22 138:7 138:10 141:3	177:15 179:1 column 85:19 87:7 106:23 125:13 combat 56:18 combating 46:19 combative 30:19 30:22 39:18 40:4 43:10,14 48:13 56:16,17 combateness 57:3 combination 88:16 151:1 combing 106:20 come 11:8 18:12 108:6 132:13 133:8 comes 54:9 58:3 58:24 172:16 comfortable 34:16 100:22 158:2 171:7 coming 35:23 126:20 commanded 27:7,9 comment 9:13 49:17 128:1 157:19 commented 118:15 commenting 57:9 Commerce 3:3 commission 177:23 179:24 committed 133:21 common 31:6,7 31:7,9,10 32:9 33:5 91:10,12 91:13 107:10
--	---	---	--	--

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 7

commonly 71:24 91:8	85:5	68:10 69:15	30:15 38:13	92:2 102:16,20
communicated 113:8 159:13	compromise 19:11,22 53:25	74:10,24 75:4	39:1,3,5,6 40:9	140:13 144:16
community 80:1	76:22 86:16	76:6,7 78:8	40:11,12 59:14	contemplated 34:3 59:23
112:21 148:3	90:12 98:2,13	81:3 86:1,5,9	61:20 91:25	118:16 129:24
company 140:14	98:15 103:23	100:18 103:11	92:12,12 97:17	contend 95:12
140:18	104:1,9 151:23	113:24 161:11	106:6,13	contention 78:19 102:6
compare 13:5	151:25 152:3	162:18	109:13 124:4	127:24
63:18	compromised 19:17 48:18	conclusions 80:23 89:23	considerable 34:4	contest 89:5
compared 27:22	81:9 89:18	104:12 111:6	consideration 124:8	103:17 104:6
compel 41:16	102:16	concomitantly 45:14	considered 55:17 61:24	173:8
144:4	compromises 79:20 102:10	condition 39:7,8	91:21 123:7,18	context 73:25
compelled 78:8	conceded 143:15	41:20 60:9	123:21	82:20 100:24
78:11	143:17 144:6	100:21 152:7	consisted 100:5	107:6 110:18
compelling 16:22 23:7	conceptually 68:9	154:3 163:13	consistent 35:15	112:5,7 169:5
24:4,17,21	concerning 143:12 146:8	163:18 164:6	92:3,5,7 94:5	continual 88:21
42:9 157:24	149:8 159:8,23	171:3	146:6	continue 43:18
compels 74:16	163:23 167:23	conduct 27:7	constitute 68:6	62:4 76:12
compensates 128:5	concerns 101:3	conducted 100:5	174:16	79:7 86:22
compensation 121:18	174:14,17	148:1	construct 50:2	continued 41:1
compensatory 128:4,5,11	concert 39:24	Conference 2:7	consult 119:15	43:22,24 45:25
complaint 132:11,14	40:3 160:21	confined 139:12	consultant 27:23	129:18 154:14
135:5	concession 89:21 122:19	confines 33:7	consultation 119:12,21	continuing 60:18 89:20
completed 86:21	conclude 13:24	confining 60:2	120:16 140:12	147:12
completely 34:16 42:1	19:15,19 22:14	confirm 64:23	consultations 119:22	continuous 89:12 126:9
94:9 108:6	22:17 29:19	155:9	consulted 8:12	148:17
completeness 21:22	43:16,21 54:6	confirms 102:19	9:14 137:21	contract 134:11
complex 59:22	77:2,15,19	conjunction 144:25	consulting 119:4	contracted 26:24 27:10
complied 148:3	78:3,17 96:14	116:21 142:16	119:10,23	119:14
comply 116:6	98:1 99:17,24	156:18,24	120:2	contradiction 89:8,11 107:21
Complying 15:23	144:4	157:9,17	consumed 160:12,19,24	contradictory 81:4 87:4
component 95:3	concluded 22:22	159:17	Cont 5:2 6:2	contrary 147:9
compresses 102:22	88:12 91:18	consciousness 88:21	contacted 159:17,19	contrast 13:5
compression	136:1,9 176:21	consensus 39:11	contain 157:2	contribute 20:14
	concludes 99:15	consequence 57:6 110:2	contained 120:20 121:5	31:5 56:2,12
	conclusion 16:4	130:11 168:11	contains 117:2	96:23 98:11,17
	18:12 37:21	consequences 6:5 176:2	contemplate	118:19
	40:8 51:15	consider 21:10		contributed
	57:11 59:12			

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 8

14:3 16:12,22 17:4 21:3,10 21:14,20 22:18 22:19,23 23:7 24:14,17,24 25:6 53:24 54:7 55:2 56:8 58:15 74:15 147:6 151:20 154:1 161:20 173:6 contributes 57:1 contributing 55:17 contribution 16:21 36:10 74:16 88:7 89:6 contributors 18:10 contributory 54:14,15,16 170:14 control 30:17,22 controlled 71:16 96:9 controversies 111:1 controversy 163:23 164:4 contusions 145:25 146:2 conversation 35:2 conversations 28:15 convinced 56:7 copies 12:7 62:20,21 copy 4:17 15:9 27:3 62:24 63:17 65:15,18 65:19 66:7,7 66:10,14 67:25	69:21 72:2 85:15,15 115:25 117:14 118:3 123:1 177:6 179:17 copyright 82:18 cord 133:18,18 134:1 cords 51:24 coroner 57:14 129:6,8,9 130:15 131:22 131:23,25 132:4,7,13,24 133:23 135:3 135:14,21,24 coroner's 131:25 132:19,21,22 133:15,21 coroners 111:20 111:22 129:5 135:16 Corporation 1:18,19 correct 11:13,15 14:21 15:5,6 17:2,15,18 20:4,5,8 29:1 51:2 65:4,10 68:14 69:9 70:3 71:1,21 72:7 89:16 90:17 105:17 115:11 129:1 137:13 143:5 143:25 148:21 149:25 150:22 150:25 151:9 151:10 156:2,5 156:6,10 157:6 158:8 161:15 164:10,17,18 165:9,24 170:5 177:6 179:10	correction 74:3 178:1 corrections 177:5,6,11,12 corrections.com 4:22 70:13 correctly 150:23 151:11 correlates 19:2,9 19:18,24 correspondence 121:15,16 cost 129:25 could've 36:4 counsel 121:15 123:7,18 165:16 173:16 174:1 counsel's 121:16 count 31:18 country 57:16 counts 158:10 county 2:6 129:8 130:13,19,21 131:3,21 132:22 133:5 134:3,9,13 135:4 177:16 179:2 couple 89:25 course 19:20 30:13 34:4 38:11,16 44:11 46:8 56:20 71:15 76:5 79:15 80:21 90:2 94:9 96:6 118:18 135:4 149:6 175:12 court 1:1 8:5 10:8,22 11:9 11:14 58:24 59:1,1,18,18 141:6 179:15	court's 59:4 courtroom 11:7 Coventry 65:16 65:25,25 cover 73:2 111:24 126:25 covered 77:21 127:4 157:21 cramps 108:7 create 36:21 124:14 created 124:14 creatinine 53:6 credentials 60:18,25 credibility 10:17 28:8 36:19,22 credible 113:12 crime 133:21 criminal 59:7,16 130:7 138:6,6 138:11 140:12 140:23,23 criteria 16:8 18:9 23:13,20 94:1,3 165:8 critical 36:3 88:17 89:20 cross-cover 130:24,24,25 cross-covered 130:21,22 cross-covering 131:1 crossed 174:8 CSR 179:22 cuffs 50:3 curare 44:9,21 current 107:5 123:1 currently 52:19 117:23 135:15 136:14 160:23 Curriculum	26:5 117:5 cusp 34:6 42:19 93:11 154:10 custody 26:7 60:15 87:22 95:17 97:22 143:10 cut 114:18 CV 123:1 128:23 137:4,7 137:10 cynical 108:9 Cyril 12:5,12,18 158:6 <hr/> D <hr/> D 4:1 75:14 Dana 5:4 dart 146:10,13 data 51:12 118:10 123:7 date 25:14 33:18 70:25 125:15 159:18 dated 26:11 David 5:6 82:18 Davis 28:11 DAWN 95:3 day 2:1 177:4,7 177:18 179:19 de 167:24 168:2 dead 9:16,19 43:8 52:21,23 53:14 75:7 133:13,22 155:24 deal 53:12 114:10 dealers 160:21 death 4:19 5:7 6:8 8:24 9:1,1 13:11,25 14:3 14:6 16:4,13 17:4 18:1,9,10
--	---	---	--	--

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 9

20:7,9,15 21:4	95:2,9,16 98:4	definitely 47:2	170:10 171:12	110:24 116:1,4
21:17 22:23	107:13 124:21	definition 58:17	171:16,18,22	116:8,13,20
23:17 24:1,14	124:25 127:12	91:9 169:25	171:25 173:11	117:15 122:13
25:6 27:8 28:2	138:7 173:11	definitive	delirium' 170:12	126:5,20 138:2
29:20 33:19,22	debate 68:6	144:17 164:2,3	deliver 179:17	138:5 140:10
34:1,8 37:23	74:22 87:8	degree 44:19	delivered 133:10	141:10 143:11
47:21,24 48:2	96:10 110:20	54:8 55:2	133:12,13	164:17,19
48:5,8,14 53:9	110:25	99:20 100:2	demand 158:11	176:21 177:3
53:21 54:8,12	decades 10:12	107:9 114:1	demands 99:6	179:8,11,17
54:13 55:3,7,9	118:18	150:16 153:3	99:20 100:1	depositions 38:3
55:17 56:2,12	Deceased 1:7	154:17,18	101:10	38:7 117:17
56:15,23 57:8	decedent 13:8	degrees 44:23	demise 169:22	138:5,6,14
57:12 58:1,2,7	34:20 76:25	54:24 83:19	demonstrate	140:5
58:16,17,19,22	100:16	92:21	71:22	depressant 22:9
59:13 60:2,4	December 12:12	dehydration	demonstrative	22:15,18 23:1
61:15,19 63:3	173:10,10	140:17	124:12	25:3 55:15
64:7,24 68:17	decided 130:24	del 2:8	demonstratives	60:8,14,25
68:17 72:6,15	decides 35:19	delay 147:6	124:15	98:21 154:4
72:16,17 73:22	decipher 109:18	deleterious	DENISE 1:5	168:6,11
74:15,16,17,18	declarations	83:25	department	depression
77:10 80:12,13	36:18	delineated	50:14,15 78:1	24:11,22 42:8
80:17 82:3	decrease 80:10	120:10	130:7 131:9	54:20
84:25 87:19	81:24	delirious 92:10	143:9 145:17	depth 126:25
88:8 91:17	decreases 79:11	94:6,8	147:17,21	derived 105:2,10
92:3,11 93:15	Defendant 3:1,7	delirium 5:9,13	148:9 149:5	119:11,20
94:16 96:23	3:13 7:2 26:15	5:16 6:8 72:25	154:19,20	120:1
107:1,18	140:11,21	82:8,10,15	162:8,15	derives 141:3
119:15 125:16	155:4,16	88:6,11,14,15	departure 148:7	described 30:2
133:18 134:1	Defendants 1:20	88:18 90:19	depend 57:25	41:19 47:1,6
136:1,2,7,9,9	2:19 7:11	91:5,12,19	depending 46:16	58:21 86:14
137:18 140:15	141:25 142:25	92:4,11,13,17	47:9 48:24	174:24
143:5,6 147:6	defender 120:7	92:18 93:9,15	depends 57:24	describes 34:20
150:17 151:1	defense 26:2,18	93:21 94:2,5	deployed 146:13	description 32:8
152:10 153:6	26:23 29:3	94:14,16,19	deposed 14:8	33:6 34:19
161:20 169:6	140:12,13,14	95:7,25 106:9	38:3	36:17 37:9,10
169:20,24	140:18,24	106:11 107:3	deposition 1:23	37:21 40:21
170:9,12	174:1	107:13 108:22	2:3 5:18 7:18	41:21,22 49:21
171:11 173:7	deference 27:22	109:16,20,25	7:21 9:8 11:8	50:16,16 168:8
173:13	28:1	110:5 112:6	12:20,21,23	169:10
deaths 16:23	defined 58:7	127:12,15,17	14:10 15:15	descriptions
26:7 83:17	106:9	127:21 138:4	20:3,12 27:1,4	41:24 60:12
87:1,5,13,20	Defining 5:17	138:17,18	29:16 37:25	163:13 169:11
87:21 88:3,18	106:10	140:6,8 169:6	38:6,14 61:14	designate 26:21
91:3 92:17,18	definite 107:1	169:13 170:5	61:21 99:13	135:20

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 10

designation 14:20	74:17 76:4	differential 18:5	113:19 120:6	60:1 80:15
DESOTO 1:17	90:14,15 91:5	18:12 91:17,23	159:13	87:18 102:5,8
despite 60:11	91:7,16,17,21	92:1 94:2	director 8:10,12	104:4
133:21	92:1 94:2	112:6	11:20	discussed 25:7
destroyed	106:12 112:7	differentiate	dirty 56:9	36:16 87:8
132:15 135:5	128:20 166:5,5	24:19	disabling 67:16	88:6 96:21
detailed 172:1	167:11,14	differing 111:6	disagree 13:4	107:12 110:23
detained 143:10	171:12,14	difficult 45:12	14:5 17:5	118:16 126:4
detected 25:15	diagnostic 146:2	102:8 131:11	101:5 103:10	138:9
determination	diametrically	152:14 160:15	108:15,16,17	discussing 11:15
41:12 58:16,21	62:1,2	difficulties	173:1	84:11 86:17
58:23,24 59:15	diaphragm 45:4	142:16	disagreement	102:9 137:12
133:20	45:6,12 85:7	difficulty 82:23	13:8,14 87:11	discussion 9:9
determine 8:25	diaphragms	114:15 115:3	106:22	23:17 36:14
51:8 53:6,15	82:11	142:18 162:7	disagreements	59:24 64:1
59:4 71:5,5	die 52:24 80:19	162:13	13:1	83:15 84:14
81:18 105:9	80:22 87:9	dilemma 154:14	disagrees 35:14	87:3,3,6,7,11
119:15 133:12	88:14 90:3	Dillard 2:21 4:6	discern 13:14	91:3 93:9
146:15 149:20	91:1 110:5	141:22,24,25	16:3	103:25 121:12
160:16	127:21	142:3,5,10,17	discharge	155:11 168:23
determined	died 33:10,11,14	142:21,23,24	146:21	discussions
22:24 51:4	83:3,4,7 84:24	142:24 143:3	discharged	72:12,14 91:11
75:15	91:19 94:15	150:4 154:23	132:19,21	100:25 172:8
determines	109:19,22	173:25,25	disciplines 8:24	disease 17:9,12
88:13	110:2	174:4,6 176:15	disclose 9:19	17:14 18:6,13
determining	difference 13:13	176:15	disclosed 7:13	18:16 20:1
16:12 52:23	26:23 27:11,13	DiMaio 5:4	13:19 115:13	47:24 83:19
59:2,3	27:20 36:23	72:20 75:9	139:15	93:7,22 107:2
develop 82:23	37:13,20,24	76:7 79:5,9	disclosure 169:3	107:14,16,18
developing	60:11 67:18	88:7 126:13,15	172:25 173:16	158:5,18
169:16	161:10	170:2,4,17	175:10	diseases 8:19
diabetic 53:7	different 8:11	171:10	disclosures 26:1	disinterest 28:10
diagnose 80:2	18:4,6 23:19	DiMaio's 72:18	discoloration	disinterested
136:7	27:5 32:13	73:5 76:2	115:7	28:6
diagnoses 18:6	35:18 37:18	79:16 81:23	discomfort	disk 29:8,12
41:17 53:8	42:24 43:10	170:8	168:7,14	156:20
diagnosing	44:12 46:4,8	DiMaio-DiMaio	discourse 98:10	displacement
34:16 52:20	53:13 54:22,23	5:9 88:5	discrepancies	85:6
171:16	54:24 57:13	diminution	35:24 41:9	disposition
diagnosis 5:14	58:23 77:9	172:6 174:20	discrepancy	179:14
18:5,12 40:18	104:12 112:12	174:23,24	13:19 35:18	dispute 32:11,15
41:15 51:15	112:15 127:2	direct 125:1,16	37:5 41:11,15	38:21,23 39:4
52:25 53:13	143:12 151:22	130:11	42:3,9	39:19,22 40:1
	171:6	directly 84:2	discuss 59:6	58:11 81:3

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 11

85:23 103:18 145:1 disputed 13:18 61:18 disputes 20:19 20:20 88:7 107:15 disputing 42:9 88:9 distress 22:19 90:14 162:7,14 167:5,17 district 1:1,1 9:14 120:7 138:11 divergent 10:14 111:9 163:17 163:18 DIVISION 1:2 DMB-RP 1:4 docile 46:17 doctor 51:18 64:20 65:23 70:19 85:21 105:3 108:25 116:13 135:21 141:13 143:4 143:22 146:9 147:2 148:11 150:5,13 151:21 152:8 152:20 153:17 154:23 155:1 155:14,24 156:15 158:22 159:16 160:5 161:13,17,21 162:2,6,12,19 163:12 164:5,9 165:4,11,20 166:13,17,23 167:19 169:1,5 171:10 doctor's 115:1	doctor-shoppi... 133:23 doctors 65:5 130:10 136:21 156:14 document 70:7 117:21 157:8 157:16 documentation 36:12,20 39:24 40:7 93:11 146:7 documents 5:19 120:20 121:6 126:24 dog 144:19 145:9,19,20,22 Doinak 5:6 doing 81:5 120:3 141:22 Dolinak 82:18 83:6,9 Dolinak's 23:17 DONJA 1:19 3:13 door 30:24 32:12 43:16 145:19 dosage 160:17 dosages 160:14 dose 25:8,10 DoubleTree 2:7 doubt 9:25 10:1 10:7,19,21 39:16 110:1 Dr 5:19 7:9,11 12:5,13,20 13:1,10 14:8 14:18 20:2,3,6 20:17,20 26:3 26:5,6,7,9,16 26:17,18 28:11 28:22 29:2,15 37:25 40:13,15	40:18,19,21,22 41:4,19 42:4 42:13,14 49:5 49:9 61:14,21 72:18,20 73:5 75:9 76:7 81:18,23 83:6 96:21 99:13 106:7 109:13 110:10 115:13 115:20 117:16 120:10 128:23 134:6 145:18 158:7 167:11 170:2,4,8 171:10,18,21 171:25 dramatic 172:22 draw 162:17 drinking 28:14 drive 46:20 drug 5:10,23 40:15 83:19 94:24 125:1 127:18 160:15 160:21 drugs 29:19 33:16,17 88:16 due 42:7 48:3 85:4 86:18 88:16 93:15 94:15 110:5 128:15 duly 7:3 Durango 2:6,8 <hr/> E E 2:11,11 4:1,14 5:1 6:1 79:9,18 e.g 75:17 earlier 14:20 36:16 49:15 50:17 61:8 77:21 85:23	95:20 110:1 117:7 159:16 159:23 160:3 161:13 162:19 165:20 early 159:20 easier 46:15 easiest 120:23 easily 62:18,21 easy 131:13 154:6 Edition 5:4,11 5:22 72:19,23 75:9 84:25 94:24 124:24 125:13 127:8 Edition,Spitz 5:8 editor 68:25 69:13,23 70:23 73:14,15,16 education 60:19 Edwards 2:14 4:8 12:13 13:2 14:13 20:3,13 37:1,4 46:6 47:22 48:15 51:18,20 63:25 64:9,11 95:19 95:21 96:17 99:10,14 100:3 105:20,23 106:19 108:24 109:1,4 117:23 119:1 121:17 123:2,4 138:23 139:10,14,18 139:21 142:8 142:11,23 149:25 157:13 161:6,25 164:14 166:15 166:17,19,22 167:2 168:21	169:1,5,19 173:1,3,18 174:3,5,18 175:11,14,17 175:20,23 176:1,9,17,20 Edwards' 7:20 effect 23:23 24:3 30:12 81:8 100:20 102:1 104:5 168:12 effective 129:25 effects 47:6 71:5 83:25 125:1,16 128:21 effort 44:25 45:1 45:6 48:19 eight 21:25 either 11:22 18:4 23:16 34:24 42:9 44:11 48:6 53:7 56:22 100:20 104:7 107:8 113:3 120:7,23 139:22 144:7 147:1 148:12 148:13 157:13 174:8,25 elected 132:7,13 135:3,16,16,23 election 129:10 130:17 133:1,3 electrical 18:25 19:8 146:20 electrocardiog... 168:5 electrode 146:23 electrodes 146:21 147:1 electronic 27:3 142:16 element 88:18
--	---	--	--	--

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 12

elevated 93:4	EMTs 147:16	132:7 149:5	132:14 135:5	77:7,16 78:4
eliminated	148:12	equivalent 22:11	145:25 158:4	78:17 85:3
151:23	encounter 41:2	47:13 138:12	158:20 165:5	100:15
else's 35:21	161:23 164:23	ER 41:8 143:24	exacerbate 45:5	exchange 121:24
Elsevier 97:11	encouraged	148:11 149:3,5	48:23 154:13	exchanged
email 2:16,24	83:24	error 75:15	exacerbated	121:17
3:4,10,16,20	endanger 60:22	113:4	13:7 48:19	excited 5:9,13
175:18	endeavored	especially 85:3	52:17 56:6	5:16 6:8 31:24
emergency 1:18	116:6	espousing 70:18	150:20 151:5,9	32:1,6,10,14
3:7 5:15 6:7	endocrinology	Esq 179:18	151:13	32:17 39:12
9:11,12,23	8:14	essentially 9:2,7	exacerbating	68:16 72:25
10:5,6 11:2,18	enlarged 107:14	15:2 150:12	147:10	82:8,10,15
11:19,23,24,24	ensuing 52:11	established	exacerbatory	88:5,11,14,15
12:1 24:6	entered 163:25	149:14	48:22	88:18 90:19
34:20 39:7,9	entering 9:9	estimate 22:2	exact 81:6	91:5,12,19
39:13 49:19	entire 64:17	et 5:14,17 6:5,9	160:16	92:3,9,11,13
50:13,15,18,21	66:16 67:11	75:14 176:10	exactly 74:7	92:17,18 93:9
50:25 51:1	84:8 116:21	etiology 56:18	100:9 108:12	93:15,21 94:2
78:1,20 83:23	119:16 152:5	91:2	134:19 149:20	94:5,6,7,14,16
109:9 117:16	entirely 58:20	European	exam 15:2 17:6	94:19 95:6,25
128:18 143:18	entirety 61:20	172:11	17:7	106:9,11 107:3
144:7 145:17	86:23 101:6	evaluate 9:15,20	examination 4:5	107:13 108:22
147:16,21	108:21 162:8	10:20 13:24	4:6,7,8 7:5	109:15,19,24
148:6,9 154:18	162:14	16:20 172:18	12:14 17:8	110:5 112:6
154:20 156:4	entitled 26:7	evaluated 10:22	40:17 48:1	127:12,15,17
162:8,15	27:22 64:24	15:4	106:25 116:11	127:21 138:3
163:16 166:21	70:1 82:19	evaluating 10:9	143:2 145:21	138:17,18
empiric 80:18	87:21 97:22	10:17 23:12	155:22 163:9	140:6,8 169:5
80:21 90:8	99:5 119:5	42:14	167:1	169:13 170:5,9
empirically	entries 18:5	evaluation 13:7	examine 163:6	170:12 171:12
79:25 80:4	164:5	event 39:23 59:2	examiner 95:3	171:16,18,22
81:17 90:10	enunciate	59:3,5 151:18	135:14,18,20	171:25 173:10
104:3 152:13	130:23	151:19	135:22	exclude 18:5,9
empirically-de...	enunciated	events 32:23	Examiners 97:8	18:16,22
86:7 103:21	130:16	42:16 145:6	examining 18:7	excluded 107:2
104:5	environment	151:1 159:8,14	example 106:21	107:23
employed 96:19	47:12	everybody 35:4	excellent 62:5	excludes 172:1
96:22 179:12	eosinophils	62:22 108:15	exception	ExDS 5:14,17
employee 133:15	16:14	evidence 16:25	118:15	exercise 22:11
employees	equal 152:6	17:14,19 18:23	excerpt 82:19	33:15,23 34:17
131:25 132:16	equate 167:18	19:11,22 54:1	84:7 95:5	47:13 75:17
EMS 173:12	equilibrate	75:20 77:25	125:4,17	86:19 128:7,16
EMT 143:23	128:12,14	78:24 100:14	excerpts 90:18	exercises 36:5
144:8	equipment	112:17 115:1	excess 76:25	108:4

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 13

exertion 83:21 88:14	11:12 44:10 54:2 151:21	10:10 13:2 20:13 28:3	103:20 104:4 107:12 109:22	30:24 35:4 39:12,19 41:10
exhale 66:23	experienced	32:22 127:9	109:22 112:24	42:7 43:17
exhausted 34:21 36:6 108:6	10:15 22:21 77:10 78:10	154:7	113:8 114:3	46:12,18 48:12
exhaustion 22:13 45:14 60:11 152:6 169:16 171:5	81:15 101:14 103:15 113:12 128:2 165:5	expressing 24:6 75:23	120:10,13 133:21 134:6 139:3 144:13 144:25 147:8	55:18 80:20 94:10 108:11 171:6
exhibit 4:15 5:12 15:10,15 16:1 17:20 65:20 68:1 69:22 72:3 73:20 74:21,25 79:1 83:10 85:17 90:18 95:5 99:13 105:21 108:23 109:6,11,12 110:11 116:9 116:11 117:10 118:3,6 121:6 125:5,17 168:22,24 169:3 176:4,7	experiencing 88:13	extend 103:14	152:5 159:1	fatal 67:6,16 68:7,12 74:23 114:12 125:1
exhibited 30:3	experiment 100:15	extensive 172:8	factor 88:13	father 157:4
exhibits 12:22 73:10,12,17 117:4 120:20 124:14,15 168:24 176:22	experimental 144:2	extensively 133:15	factors 6:7 54:20 92:12 98:3 153:14	favor 168:10
exist 15:3 88:3,4	experiments 75:15 78:13,15 79:16,23 81:12 81:14 100:4 103:14 104:7,8	extent 36:3 51:3 81:13,14 102:22 145:11 146:7	facts 123:6 144:15	favorable 153:9
existence 87:17 87:18	expert 7:14 11:13,14 12:2 12:4 24:6 25:24 26:4,18 29:3 61:12 83:9 115:13 118:25 119:2 122:20 137:14 139:8 141:4 143:14 156:3	external 119:23 120:16	factual 41:20 158:23 160:5	Fay 4:23 70:23
exists 17:13 41:16 53:23 114:10	expertise 8:4	extraordinarily 158:19	faculty 172:19	FDA 167:22
expect 46:25 149:3	experts 26:2,15	extremely 33:23	Fahrenheit 92:21	February 26:12 29:2 117:8
expeditiously 110:8	expires 177:23 179:24	extremities 45:9 46:17	fail 28:8	federal 130:5 132:11,11,14
expel 66:22	explain 18:6 165:25	eyewitness 36:7 36:11 38:18	failed 154:3,13 161:18,21	fee 140:25 141:1 141:6
experience	explained 101:7 148:25 166:12	eyewitnesses 38:14 39:7 159:13	failure 40:19 167:12,16	feel 113:10 158:2,22
	explode 30:13 39:19 94:8	fact 24:6 26:19 26:21 48:10 78:13 87:8 91:1 96:8,21	fair 13:22 48:16 105:22 108:10 142:15 150:5 153:8 154:2	fell 73:13
	explode.' 41:3	face 41:6 85:12	fall 55:21 73:12	fellas 47:16 176:19
	express 8:6 10:2 10:19,21 24:13 59:24 120:14	face-to-face' 88:22	false 107:20 108:10	fellowship 8:15
	expressed 10:8	facedown 75:16	familiar 44:7 72:22 73:3 96:25 97:21 99:4 101:16,25 102:24 166:9 173:14	female 34:19 35:15 41:8 117:16 131:22 131:24 132:16 132:25 163:16 163:20
		facilities 8:11	family 157:4	festooned 16:16
		facility 15:16 60:18	far 12:24 28:13 78:13,16 94:16 119:22 120:16 129:21	fever 92:19
		fact 24:6 26:19 26:21 48:10 78:13 87:8 91:1 96:8,21	fashion 30:8,16	fibrosis 107:9
				field 73:6 96:2 101:22 103:10 156:3
				fifteen 22:1
				Fifth 124:24
				fight 56:5
				fighting 35:8 56:1

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 14

figure 150:3	159:17,19	28:12 33:13	179:9	102:9,9,15,20
figured 36:4	160:4 161:9	35:22 44:4	found 49:8	103:24 104:2
figures 173:14	170:11 174:7	45:10 46:15	75:16 82:24	172:6
file 116:21	Fisher 5:8 84:25	54:5,22 55:1,6	84:8	functioning
132:11	85:17	55:8,21,25	foundation	75:18 79:12
filed 105:21	FISHMAN 2:14	57:17 58:14	173:17 175:9	fundamental
final 179:14	fit 86:14	59:12 71:9,19	four 89:24	8:22 93:9
financial 119:6	five 16:10 50:16	71:23,25 72:19	120:18 139:10	170:23
find 17:14,23	57:19	72:22,24,25	four-and-a-ha...	further 14:16
23:6 24:21	flat 141:8,12	73:6 75:8	131:18	52:24 60:1
53:23 82:13,14	flavor 90:25	79:25 80:6	four-point	147:2 159:1
112:22 120:23	96:7,8	81:2 82:17	137:19,23	166:14 175:14
120:24 126:2	flip 150:11	90:1 91:6,8,10	138:14	176:13 179:12
146:16 157:24	Florida 115:18	95:11 96:3,20	frame 22:16	179:16
158:4,20,21	115:21 122:25	97:1,13 98:22	23:1,3,4,5	future 74:3
162:2 171:11	129:13,14	101:16,22	36:14	124:16
finding 171:21	138:5,8	102:24 103:10	frames 152:25	FVC 67:1
findings 16:10	focally 158:18	109:2 110:20	Frank 7:8	
16:18,22 17:10	focus 45:20	113:22 114:8	freely 102:18	G
18:3,13,15,15	110:6	120:14 124:1	103:8 145:4	G.M 5:14,17
18:20,21 19:2	focused 168:12	126:14 127:7	154:1	garbled 142:4,9
19:6 47:23	focusing 24:12	131:9,17	frequently 16:23	Garfield 95:4
48:1 74:22	folks 49:16	160:13 166:4	33:24 80:19,22	gas 53:14
144:13 157:23	follow 132:8	170:8 171:10	87:4 92:18	Gass 3:18,18
157:25	followed 167:13	171:11 174:8	152:13 160:14	7:10 15:21
fine 141:22	following 75:17	forever 135:13	Friend 1:7	63:9,13 64:6
174:3 175:2,25	177:5	forgot 110:1	front 2:22 3:15	65:23 79:4
fingers 174:19	follows 7:3	form 37:4 46:6,7	35:4 67:11	84:15,17,19,22
finished 21:1	99:16	47:22 48:15	68:24 161:16	90:22 121:9
76:13	football 89:14	96:17 100:3	full 65:18 150:15	125:7,18
fire 132:11	force 79:19	106:19 118:11	full-time 131:2	139:17,20
fired 129:2,4	99:18,25 102:2	118:21 158:24	function 4:20	169:9
132:15 135:6	forced 66:19,25	161:6,25	19:13,17,20	gass@gwmla...
146:10	135:1	formal 60:16	53:11 63:4	3:20
firing 129:7,11	foregoing 177:3	135:17,22	64:8,25 66:25	gasses 51:10
129:18 132:6	179:10	143:17	67:3,8,9,12,13	gather 40:25
135:8,13	forensic 5:4,6,13	formally 4:15	67:15,19 68:4	general 32:21
firm 7:24 121:17	8:2,3,15,20,21	135:18 147:22	68:12,13 69:17	90:2 129:10
138:23	8:25 9:7 12:4	148:10	69:20 71:6	145:24 152:25
first 7:3 63:2,7	13:23 14:1,5	format 117:18	75:19 76:23	163:1
64:22,24 73:22	16:10,24 17:6	formed 124:9	80:10,14 81:8	generally 27:19
85:9,19 93:16	21:2 23:11,18	forming 113:19	81:12,25 82:3	148:20 153:12
108:22 125:15	26:15,20 27:6	123:7,19	82:4,12,16	153:23 160:20
134:1 157:12	27:12,14,16,21	forth 50:1 53:17	83:1 89:18	161:8

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 15

gentleman 104:1	106:5 108:8,19	12:18 16:25	governmental	hallucinogenic
Gerald 28:22	121:9 131:7	18:2 25:24	135:18,23	33:17
getting 122:6	141:20,23	29:7,19 30:2	Gowitt 28:22	hallway 164:21
Gilman 5:21	142:12 145:12	32:20 33:18	GRAHAM 1:14	haloperidol 5:24
49:2 124:21	145:15,21	35:8 43:9	2:19	168:16
125:4,8	146:9 149:19	45:23 46:5	grams 93:2	hand 10:3 12:19
girls 132:5	152:19,20	47:20 51:12	grasping 35:3,3	27:9 126:19
give 21:22 40:3	155:8 159:1	74:11,25 86:11	greater 28:9	179:19
64:11 90:22,22	166:19 169:4	94:4 114:15	48:8 86:11	Handbook 5:4
104:18 114:1	goes 10:16 83:22	115:2 127:25	120:12	72:22,24 75:8
119:6 124:12	going 9:22 10:21	128:17 143:10	Greg 28:11	handcuffed
126:6 141:15	11:1,15 12:19	143:24 144:19	gross 17:16	85:13
145:16 147:18	21:1,15,22	144:21,24	119:16,20	handcuffs 58:11
163:1 175:15	24:13 27:25	145:2,3,9,10	165:4	136:3
given 25:8 36:15	35:24,25 38:11	146:9,12 147:4	ground 85:12	Handing 51:19
41:24 44:9	38:21 39:8	147:13 153:22	144:19,21,24	hands 58:7,17
48:10 90:25	40:5 44:2,2,19	156:9,22,24	145:3,10	58:22 72:15,16
96:7 115:15	47:12 53:23	159:4,8 160:6	group 129:14,16	74:18,19
119:25 120:5	78:7,25 90:2	160:8,12,19,24	129:19 131:5	hanging 176:18
126:10 138:2	107:8 108:20	161:3,14 162:6	Guardian 1:7	happened 94:17
140:10,20	109:23 110:3	162:13,23	guess 46:9 60:20	104:1
160:17 177:7	111:9 112:16	164:20 165:1,5	124:19	happens 87:14
gives 16:16	124:14,15	169:19 174:18	guilty 130:7	happy 38:11,16
35:16 68:16	126:17 130:10	175:7	gunshot 74:19	62:24 67:24
100:4 162:17	132:14 141:14	Goode's 13:11	gurney 46:12	97:25 99:9
giving 64:13,17	143:13 144:14	13:25 17:17	47:5 163:21	102:5 129:17
132:2 143:4	145:6 147:18	20:7,15 24:1	guy 115:22,22	158:9
glad 119:5	158:4 171:6	24:14 25:6		hard 12:7 62:20
Glade 129:21,23	gonna 13:9 39:4	34:2 49:13	H	62:21 117:14
130:1	47:16 61:12	53:21 56:1	H 4:14 5:1 6:1	hard-bound
glands 16:17,18	63:14,18 67:25	57:8 58:19	12:18	174:11,13,17
glass 4:17 12:16	73:7 82:19	61:15 77:25	H-Y-P-E-R	Harrison's 5:22
14:17,22 15:2	94:3 105:21	78:20 92:3	92:18 93:4	84:23 125:9,10
15:4,14 16:25	108:14,15	145:13 147:6	Haldol 5:24 13:6	125:12
17:20,25 19:1	119:6 126:21	149:8,14 150:7	13:10,15,24	he'll 119:5
19:11,13,21	126:22,25	150:17 151:1	20:6,14 21:19	head 133:19
118:7 157:20	132:5 135:5	152:10 159:5	22:23 23:25	176:8
go 41:16 48:23	150:11 155:8	161:22 162:3	24:2,5,8,12,13	heading 31:19
52:24 53:22	161:16	163:13 164:6	24:13,16,20,23	62:8 75:13
64:2,18 76:13	good 47:14 50:6	Goodman 5:21	41:11 167:20	104:17 149:10
82:14 85:18	115:21,22	49:2 124:21	167:23 168:7	Health 104:22
88:19 89:2	118:9 121:8	125:4,8,11	168:13,16	104:25 105:6,7
93:19 104:7	154:14 176:17	gotten 78:16	hallucinogen	105:19
105:1,8,9	Goode 1:5,7	172:9	31:3	healthcare 5:23

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 16

36:24 37:6	hire 134:20	143:13	92:19,23	implemented
38:8,21 162:22	hired 28:5	holding 156:3	hyperventilati...	153:6,20
healthcare-giv...	131:13	homicide 57:20	128:3,10	implicate 13:10
89:7	histochemical	58:2,7,16,21	hypoxia 42:7	20:6
healthy 99:7,16	106:25	59:5,13,21	54:21 75:20	implicated
99:23	history 16:9	60:5,7 61:5	81:17 93:11,13	13:21
hear 114:23	17:6,8,11,12	74:17 133:16	93:23 144:3,3	important 16:7
141:7 142:3	17:13 40:17,25	133:23 138:10	hypoxic 93:10	21:16 40:4
155:5,17	47:25 48:6	138:12,13		54:19 57:11
157:11,12	56:15 93:16	horse 155:24	I	88:13 89:17
heard 42:4	hit 65:24 146:10	hospital 1:17	i.e 85:12	90:12 99:20
91:11	hobble 6:5 85:10	29:9 34:2,15	idea 80:8	100:1
hearing 114:21	172:21 176:2	37:10 38:2	identical 13:20	impression 28:4
142:18	hobble-restrai...	47:5 129:21,23	identification	61:18 90:3
hearsay 115:24	173:14	129:24 130:5	168:25 176:24	improve 152:7
149:23	Hog-tying 82:19	136:14,16,23	identified 4:15	improved
heart 46:20,22	82:22	148:19,21	12:4 25:23	153:14,15
46:23 66:9	hogtie 34:13,18	149:3 161:24	26:15 44:4	154:2,5
83:19 93:6,22	41:13 45:10,24	162:4	45:10 46:14	in-custody
102:22 107:7	55:1,7 61:19	Hospital-Desoto	65:21 103:20	140:15
168:19	72:9 75:16	3:1 147:4	116:25 117:3,6	inaccurate
hearts 107:14	77:6,17 80:2	155:5,16	117:7 118:6,7	41:21 114:7,9
held 85:4 128:24	81:10 82:7,10	hospitalized	118:13 134:14	164:7
129:3	82:15 85:10,23	161:5	156:16,21	inadvertently
Hello 142:5	86:25 87:13	hospitals 129:15	identifies 55:7	128:11
help 45:21 64:15	88:8 90:3 98:1	129:16,17,17	identify 15:10	inappropriate
110:6 167:24	100:19 137:22	hotel 9:8 133:9	15:12 117:13	34:7
helpful 83:15	138:15,19	hour 2:8	160:6 164:5	include 16:14
127:24	140:16 170:24	hours 25:14	identifying 15:7	17:12 18:4
hematology 8:14	172:4	122:3	ignorant 61:13	20:23 106:25
hemodynamic	hogtie-restraint	human 58:8,11	ignore 171:2	148:4
102:2	87:10 88:3	58:14	illegal 29:19	included 21:9,17
hemodynamics	hogtie-restrai...	humans 8:23	30:1	66:14
172:22	87:19	humor 53:4,11	illness 88:16	includes 8:13
Herald 134:22	hogtied 39:22	53:16	imagine 120:3	26:4
heroes 172:15	78:5	hyper 92:18	immediate	including 124:1
hide 147:19	hogtying 22:12	93:4	174:19	139:25 141:10
high 25:21	42:7 44:4	hyperinflation	immediately	incoherently
higher 148:12	58:10 75:13	165:7	126:2	41:1
149:3	90:7 108:1	hyperplasia	impact 46:13	income 118:24
highlighted	hold 8:4 11:13	16:15,17	116:17	119:3,16,16,20
13:13	11:14 12:1	hyperthermia	impacted 102:6	120:1
highlights 118:4	116:17 126:19	93:23 171:23	impairment	incomplete
Hilton 2:7	128:25 135:14	hyperthermic	85:25 172:22	31:23

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 17

increase 47:1,2 47:3	169:13,15 170:22 171:3 174:4,9	inherent 88:14 89:8 158:25	105:19	140:8
independent 36:7 98:20	individual's 88:21	initial 28:4 34:5 110:1	institution 172:13	intoxication 125:2
index 9:2 85:3 86:11,17	Individually 1:5 1:12,12,13,13 1:14,14,15,15 1:16,16,17	initially 28:9 167:11	insult 56:9,10 intend 124:11	intoxication,' 170:13
indicate 35:10 48:7 51:22 66:5 77:8 82:3 89:19 103:22 103:23 126:12 144:20 150:6 151:4 169:11	individuals 6:8 21:6 32:14 33:9,14,15,23 41:24 44:7 52:24 53:6 71:11 80:18,22 81:10 82:7,9 88:13 89:5 92:16,17,24 96:8,19 98:4 100:25 107:24 130:21 160:17 163:2 169:12	injected 160:12 injection 21:25 22:6,8 23:4,6 24:2,5,8,16 25:13 36:16 37:8 41:10	intended 58:19 164:3 intent 16:12,19 124:13 133:22 intention 71:21 interact 145:2 interaction 145:3,9 147:10 intercostal 45:6 interest 179:14	intravenous 21:25 22:6,8 23:6 24:2,5,7 24:15 25:9 36:15 37:8 41:10 150:19 151:8,12 168:7 168:13,15,17 171:1,4
indicated 37:7 61:11 66:8,10 80:1 117:14 132:4 168:14 169:15	inevitable 45:13 inevitably 10:18 19:17 35:24 151:5	injuries 9:15,21 9:21 Injury 145:25 innumerable 126:11	interested 118:22 interference 85:6 Internal 5:22 125:13 International 102:25 Internet 62:18 62:20 64:1,5 68:21	intubated 44:9 intubation 40:19 intuitive 111:8 intuitively 44:3 invade 59:4,19 invading 59:1 investigation 5:7 23:17 27:8 84:25 130:6
indicates 15:1 54:5 58:13 76:24 87:18 90:11 95:9	infectious 8:19 infer 165:18 inference 53:9 inflate 45:4 inflicted 145:13 influence 33:10 33:18,25	inside 122:7 insomuch 13:20 16:9 34:3 128:2 130:10 144:1 158:9 inspection 12:19 17:17 inspiration 52:2 instance 17:7 18:8,8 19:4,6 19:14 24:17 36:3 38:25 52:25 54:25 58:9 88:10 93:14 135:9 145:11 170:20	interplay 83:18 interpret 12:18 35:16 37:11 82:25 109:23 110:3 interpretation 76:3 79:15,16 interpreted 100:14 interrupt 156:2 interruption 9:8 interstitial 107:9 intervention 152:10 153:20 interventions 153:5 intoxicated	invited 132:3 involved 52:19 59:9 93:17 137:15,17,19 137:23 138:24 139:19 involvement 13:15 involving 137:15 ironic 128:8 ironically 148:20 irony 148:25 irrational 30:15 39:11,18 43:17 94:10 irregardless 43:19,19 irregular 168:10 irregularities
indicating 72:19 120:13 121:1 167:23	information 5:23 59:14 65:24 115:15 118:11 119:7 159:7 ingested 160:19 160:24 161:3 ingestion 31:1 31:25 32:2,7 32:17 57:6 161:23	injury 28:6 115:16 159:24 inquire 14:16 inquiries 27:19 inquiry 28:6 115:16 159:24 inside 122:7 insomuch 13:20 16:9 34:3 128:2 130:10 144:1 158:9 inspection 12:19 17:17 inspiration 52:2 instance 17:7 18:8,8 19:4,6 19:14 24:17 36:3 38:25 52:25 54:25 58:9 88:10 93:14 135:9 145:11 170:20 instances 44:8 120:8,25 Institute 104:22 104:25 105:5,7	involved 52:19 59:9 93:17 137:15,17,19 137:23 138:24 139:19 involvement 13:15 involving 137:15 ironic 128:8 ironically 148:20 irony 148:25 irrational 30:15 39:11,18 43:17 94:10 irregardless 43:19,19 irregular 168:10 irregularities	
indication 34:8 115:6 167:5,16				
indications 34:11				
indirectly 33:22				
indisputably 58:9				
individual 14:4 21:24 30:10 36:5 42:21,22 44:1,8,10 52:16 53:2,10 57:5 60:9,12 60:15 66:21 70:16 71:25 75:16 79:19 85:2 88:17 115:17 126:15 131:13 160:2				

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 18

88:24 130:12 irregularity 168:9 irrelevant 89:11 irrespect 44:15 irrespective 43:23 47:21 irrespectively 44:18 irritating 104:3 isometric 22:11 34:17 36:5 45:9,13 47:7 47:13 86:19 101:1 108:4 128:7,16 issue 8:17 13:6 13:15 20:18 56:25 58:24 59:23 60:6 82:6 84:2 86:17 87:13 88:3 91:9 92:14 96:3,9 98:20 126:4 142:12 144:1 144:10,11,14 144:16 148:6 152:12 156:11 156:13 159:3 168:5 174:13 174:15 issued 143:6 159:1,2 167:22 172:18 issues 10:4,13 57:21,23,24 61:7 84:13 98:11 112:8,16 137:11 148:22 168:19 issuing 11:5 144:12 it'd 28:15 93:16	112:5 item 118:10 157:8,16 iterations 174:14 IV 21:23 <hr/> J J 1:14 6:9 jail 140:15,19 James 3:18 Janet 164:10,11 January 99:5 JASON 1:13 2:19 Jefferson 2:15 Jeffrey 38:6 JEREMY 1:12 2:19 job 35:21 131:11 155:9 jobs 119:12 JOEL 1:13 2:19 John 1:17 3:2 114:18 141:19 155:1,15 173:22 176:14 Join 173:2,19,23 joint 134:11 joke 134:22 JOSEPH 1:16 journal 5:13,15 6:7 69:2 70:17 71:13 74:6 80:6 97:1,3,4 97:12,21 98:22 99:5 101:16 109:1,2,9 123:22 JR 1:15 2:20 Juan 2:7 judge 10:1,19 39:2 143:16 144:9	judgment 33:15 33:23 July 25:14 70:25 156:9 159:9 162:4 165:6 jumped 129:25 juncture 158:22 June 159:20 165:14 jurisdiction 30:1 31:9,12 57:14 59:14 Justice 130:7 131:8,8,19 <hr/> K K 1:15 K-I-S-S-I-N 95:4 K9 144:19,20 145:1,2,9 146:6 Karch 94:13,16 94:20,23,23 107:4,8 109:18 Karch's 5:10 94:15,22,24 109:17 kdoty@mitch... 2:24 keeling 35:4 keep 122:16,18 Kelli 1:5 159:4 kept 41:2 ketoacidosis 52:25 53:7,8 ketones 53:4,5 53:11 killed 133:12 kind 51:7 157:3 kinds 71:5 Kingdom 65:13 65:14 Kissin 95:3	KIZER 3:14 kneeling 79:20 knew 14:10,11 54:15 92:1 115:22 knife 74:20 know 8:13,23 9:18 10:11 11:10 13:8,17 13:18 14:8,12 14:25 15:1,2 20:20,22,23 21:11,15 25:23 27:1 28:11,22 28:23 30:13,25 32:23 33:10 35:2,13 38:2 39:18 40:2 41:2,18 42:6 42:15,16 48:3 48:16,16 49:3 49:11 53:17 54:2 57:14,16 57:16,20,22 73:1 75:5 77:6 80:4,17,19,20 81:13,20 82:7 84:8 88:1 89:24 91:13 92:7,7,16 93:8 93:14,23 94:8 97:5 100:10 104:2,7 105:23 106:20,22 107:5,15,17,22 108:9,14 110:4 110:12,14 113:1 114:9,23 115:12,23 117:9 118:16 118:19 119:3 119:12 121:3,3 122:3,5,12,15 122:21,23,23	122:24 124:15 126:16,20,21 126:25,25 127:2,5 129:7 129:10 136:6 137:20,21,25 139:2 140:7,25 142:19 143:17 143:17,18 144:6,13,16,23 145:5 149:23 151:21 152:15 152:21 155:19 156:13 157:1 157:15 158:12 159:24 160:2 160:25 161:1 162:16 163:25 165:11 168:18 169:17 170:19 170:25 171:3 171:19 172:19 174:7 knowing 118:22 knowledge 26:16 50:12 56:14,21 60:15 61:1 140:3 145:13 148:19 160:22 172:14 172:17 known 33:21 56:15 85:10 KUHN 3:8 Kurtzman 134:2 134:6 <hr/> L L 2:3,21 179:4 179:22 L-A-W-N-W-... 136:20 LA 179:2 Lab 25:17
---	--	---	---	---

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 19

laboratory 8:10 8:12,14 11:20 11:22 51:4,14 54:1 60:11 102:19	leaving 169:9 lecture 111:18 lectured 111:18 lectures 111:23 lecturing 111:17	113:20 114:11 116:14,16 127:19 148:12 148:21,24 168:14	71:9,12,17,23 71:24 72:4,8 87:3 94:18 101:22 103:9 105:11 106:10 107:16 111:1 112:1 166:2,4 166:8,11 169:10,11 174:16	10:25 16:8,19 19:23 29:14 73:22 74:21 84:10 92:25 109:17 146:14
lacerations/pu... 146:5	led 16:4 57:2 110:21 130:8 132:6 161:23 174:10,16	levels 25:15 liability 130:18 133:2	107:16 111:1 112:1 166:2,4 166:8,11 169:10,11 174:16	looking 17:19 22:3 24:3 25:17 31:20 63:24 64:21 65:6,17 82:16 84:24,24 88:5 94:23,24 115:1 117:1,23 124:22,23 125:11,12,22 132:8 145:16 145:17 146:24 157:3 163:2 167:3
lack 52:11 143:17 173:16 175:9	left 129:13 145:22 146:5	license 130:11 137:2	litigants 27:11 litigation 21:1 27:23 111:9 120:9 132:15 132:17 135:8 138:11 140:4	looks 22:4 lorazepam 21:24 22:6,9,9,15,25 23:2,6 24:3,4,9 24:10,18,20 25:12,18 36:10 36:15 37:8 38:17 39:1 40:3 42:8 54:20 55:17 61:4 62:3 88:25 98:21 126:4,7,10 154:1,4 168:6 168:12 171:2,4
lamentation 163:2	leg 108:6 legal 5:13 58:23 59:2,4 61:3 101:17 109:3 115:16 138:12 159:23,24	licensed 8:6,10 lieu 135:2,10 42:18 life-threatening 42:18 light 34:22 78:12 112:24 154:6 164:25	little 81:1 93:5 108:19 120:4 140:1	lost 130:11 lot 90:3 140:12 140:23,23 lower 146:5 LSD 29:23 30:3 30:5 31:2,4,8 31:25 32:2,7 32:18 33:5,8 33:10,11,12,14 33:16,18,21,25
late-term 133:8 lateral 83:24 latest 152:8	legally 30:25 legs 46:11 47:4 50:1,3,9 leisurely 147:3 LEMUEL 1:19 3:13	Likewise 31:24 limit 83:25 limited 27:18 140:1 143:5 164:25 limits 67:13 line 120:24 155:25 178:1	live 52:21 119:13 living 9:4 53:15 LLC 3:18 local 111:18 locate 31:19 62:6 104:16 location 37:18 logic 89:11 long 35:7 42:2,6 100:5 150:8 152:13 155:7,8 164:20 longer 52:13 128:25 129:16 152:2	
law 10:22 64:15 65:1 Lawnwood 129:22 130:3 136:17,19 laws 59:16 lawsuit 159:14 lay 36:25 37:9 42:11 lead 18:1 51:15 99:11 144:15 leading 169:8 leads 72:10 80:9 80:12 81:24 172:22 learned 73:9,13 73:15,17 95:17 95:22 97:17 98:23 101:19 103:2 139:5 leave 60:14 130:13,19 131:3,6 133:5 134:9 135:1	let's 15:14 64:2 64:18 85:15,15 90:18 106:1 108:22 118:2 142:17 152:25 168:21 175:20 lethal 9:21 letter 12:12 13:2 68:25 69:13,23 73:14,15,16 75:14 129:5,11 Letters 4:21 letting 157:15 level 25:19,21 47:12 48:4 57:2 66:6 73:12,13 88:21	link 61:15 linkage 23:11,12 23:18 linked 57:23 list 18:5 21:2 55:3,24 122:22 170:13 listed 55:19,20 65:9 67:1 70:23 95:2 152:25 156:16 156:17 177:4 listen 38:24 listened 98:9 literature 5:17 46:15 54:5,9 55:4,6,22,25 58:3,13 62:12	located 10:13,22	

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 20

39:17 48:2,4 48:11 56:12,14 56:22 57:6 84:24 94:14,16 94:18 95:2,7 109:15,19,22 109:24 110:3,5 124:22 125:2 125:16 127:24 128:9,21 160:6 160:8,11,16,19 160:24 161:1,3 161:9,22,22 LSD-related 93:15 95:9 lumpers 21:5 170:16 lung 4:19 63:4 64:8,25 67:12 67:13,15,19 68:4,12,12 69:17 71:6 157:25 158:17 lungs 45:4 51:23 66:22 158:15 163:10 lying 79:20 124:17	95:21 146:11 male 131:22,25 132:24 malevolent 77:3 77:6,16,18 78:4,6,12,14 78:17 100:14 100:18 144:4 man 124:25 manifest 108:2 manifestation 108:7 manner 9:1 27:8 37:23 43:10,23 45:23 47:21 50:11 57:13,18 57:19,24,25 58:2,16 59:13 60:2 61:16 72:5,17 74:11 74:17 136:10 143:6,7,9 147:3 150:17 151:3 marijuana 29:25 31:3,5,7 31:9,11 48:2,3 48:4 161:14,18 mark 3:2 62:24 65:20 69:21 72:2 78:25 83:9 95:5 105:21 108:22 114:18 116:8 118:2 125:4,17 141:19 146:25 155:1,15 168:21 173:22 175:20 176:14 marked 12:23 16:1 17:20 73:10 78:25 110:11 116:11 117:9 118:6	120:20 121:6 167:9 168:24 176:23 MARKED/ 4:15 markings 117:17,22,24 117:24 118:4 marks 145:22 146:8,16,17 Marty 3:14 7:9 63:10 114:16 121:9 141:19 179:18 Marty's 114:24 mass 85:2 86:11 86:16 massages 132:3 material 157:8 157:17 materials 33:6 62:15 77:24 105:11 156:15 158:23 Matt 166:18,20 matter 2:2 13:17 156:18 matters 118:11 118:14 Matthew 3:8 maximal 72:9 80:9 81:23 96:4,11 102:1 107:24 108:1 110:21 111:11 138:15 166:2 170:24 maximum 89:3 99:17 McDONALD 3:8 McIntosh 3:2 4:7 114:16,18 114:23 115:4 141:19,20,23	155:1,2,4,7,14 155:15,19,23 157:14,16 161:10 162:2 164:12,16 166:13 167:4 173:2,19,22,22 176:13 McNUTT 2:22 MD 1:23 2:3 3:13 4:4 6:9 7:1 65:7 119:17,19 141:4 177:2,9 179:7 MDs 65:9,11 mean 22:12 23:23 32:6 37:12 50:8,20 54:14 58:8 59:17 67:1 72:13 81:5,6 82:14 86:22 108:12 109:23 110:3 119:2,16 125:9 139:15 155:24 meaning 28:1 51:8 92:8 107:16,17 meaningful 40:25 means 56:22 91:25 meant 18:19 54:15,16 107:19,20 108:11 measure 53:1,4 66:3,6,9,12 measured 66:15 66:20 75:19 76:23 166:6 measurement	42:19 104:5 112:20,22 113:3 163:11 measurements 43:6 112:13,13 112:18 measures 68:4 102:2 measuring 66:23 67:19 mechanical/po... 84:1 mechanism 74:19 80:13,17 80:21 82:5 87:4,19 90:5 128:4,11 Med.Sci 64:14 65:1 medical 9:2 10:17 22:3 31:20 34:4 36:13,18 37:22 38:19,22 39:2 39:4,24 40:6,9 40:13,14 42:10 43:1 52:14,22 58:21,23 59:3 59:5 60:9,16 60:18 65:5 69:2 70:19 71:16 83:23,23 84:3 89:14 95:2 97:8 103:9 104:18 111:1,19 112:19,24 114:14 115:2,7 128:4 129:22 130:3 135:14 135:17,20,22 136:17 137:2 138:12 144:8 145:15 146:8
M				
M 6:5 M-I-C-H-A-E... 99:12 M.D 1:19 Macaw 3:8 166:18,20,20 maintained 88:22 89:3 major 18:10 majority 121:2 140:3 making 36:22 41:12 45:11 49:17 58:20				

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 21

147:25 148:9	96:7 102:4	metrics 69:20	3:10	84:12 89:16
149:10 150:16	memory 66:11	162:17 166:3,6	mmcintosh@...	91:22,23 117:2
153:4,5,19	66:13,17 67:10	171:24 172:1	3:4	118:17 133:19
156:12 161:7	112:7	mg 25:13	moderate 99:18	158:17 170:21
162:17 163:14	Memphis 2:15	Miami 134:22	99:24	muscle 16:15
164:6 167:3,5	3:9,15	Michael 1:23	moment 41:10	102:17
169:14 174:11	mental 88:16	2:3 4:4 7:1,8	116:13 145:16	muscles 45:5,7,9
174:13	mention 20:9	119:17,19	164:9	56:6
medically	62:3	177:2,9 179:7	money 119:9	muscular 44:10
151:19	mentioned	Michaelwicz	120:1	44:19,21,23,25
medically-trai...	14:20 123:22	99:11	monitor 88:23	45:1 52:15
175:5	164:9 175:16	microscope	126:6 132:10	Musculoskeletal
medication	merely 26:19	16:11	132:12	145:22
140:17	61:3 84:23	microscopic	monitoring	myocardium
medications	126:8,11	15:2 16:8 17:7	60:17 89:13,20	19:5,7,10
25:12 44:21	129:25 145:18	48:1 165:4	126:9 148:17	107:10
medicine 5:13	166:8 174:16	middle 149:12	morning 98:10	
5:22 6:7 8:7,12	Merit 2:4 179:4	Midway 149:12	morphologic	N
10:12 11:12	met 7:9 28:13	MIKE 1:14 2:20	8:18 19:24	N 2:11 4:1
18:4 21:6 24:7	62:1	mil 25:18	morphological	name 7:7 12:18
54:3 56:15	metabolic 22:10	milligrams 25:9	16:8 19:2,2,8	65:7,8 97:4,5,5
97:1,13 101:17	34:14,16 41:14	million 132:16	19:18	97:8 115:17
109:3,9 115:23	42:23,25 43:4	Milwaukee 3:19	motel 133:9,10	122:21 155:15
125:13 143:18	45:14 52:6,8	mind 114:19	mother 1:7	159:24 160:4
144:7 170:17	52:15 54:3,21	minimal 120:18	157:4	NAME-publis...
Medicine,Vol	56:6,11,19	137:9	move 45:2,4,12	97:10
5:15	60:10 86:17	Ministry 131:7	45:21 50:1,7,9	names 160:21
medicolegal 5:7	98:7,16 99:6	131:8,19	51:23 129:22	nanograms
23:16 84:24	99:19 100:1,20	Minor 1:8	175:3	25:18
119:11,15,20	100:23 101:10	minute 104:18	movement 50:5	narrow 18:11
meeting 28:12	101:14 102:18	121:10 152:3	movements 85:7	national 91:12
28:16 137:8	108:3,7 128:2	152:24 173:20	MPH 6:9	97:8 104:22,24
meetings 91:12	128:6 147:10	minutes 21:24	mphillips@rai...	105:5,7,18
Meghan 4:23	151:6 152:1	21:25 22:1,3,4	3:16	natural 1:7
70:23	171:5 173:7	22:7 35:13	mucosa 16:17	47:24 57:20
member 88:23	method 69:15	47:17 89:24	mucous 16:14	107:1,14,16,17
89:13 121:16	85:24	108:5 132:13	16:17,17 19:14	133:18 134:1
129:20	methodology	135:4 155:9	19:16	nature 46:16
members 172:19	55:16 87:12	169:23,23	MUELLER	51:9 59:2,3,4
Memorial 1:17	170:18	Mississippi 1:1	1:14 2:20	83:18 145:14
3:1 147:4	metric 55:2,23	1:18 2:23 3:3	MULLINS 3:18	147:9 148:25
155:5,16	55:23 103:21	MITCHELL	multiple 8:24	158:11 168:13
memorized	152:15 162:9	2:22	32:13 41:24	near 40:1 57:9
86:23 88:2	164:22 166:10	mmacaw@mc...	61:22 71:11	93:15 160:20

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 22

necessarily 68:14 74:10 83:3	non-medical 57:4	134:1	163:20,22	78:18 95:9
necessary 117:20 159:3	non-physician 135:21	number 55:3,23	165:7	100:15
neck 133:19	non-trivial 93:12	55:24 141:2	observations 99:16,23	occurs 127:18
need 15:17	nonsensical 30:8	160:2 171:24	107:21 156:10	October 2:2
62:25 68:2	nonuniform 160:14	numbered 31:17	156:13 163:25	177:4
84:5 85:18	nope 156:19	104:16	observed 130:12	odds 75:23,25
86:20 87:16	157:7 160:1	numbering 168:23	164:25	76:4,7 77:11
113:10 124:19	normal 19:4	numeric 95:1	observer 111:8	81:22 86:1,3,5
125:24 127:8	67:4,9,13 93:1	numerous 96:8	obvious 22:10	86:7,9 166:11
130:25 155:8	normally 21:2	96:8 124:7	74:7 89:11	offer 11:1 156:7
174:2	43:5 51:4	158:14 174:9	108:2 133:17	156:7
needed 115:19	52:19 71:20	174:14	152:5	offered 135:11
131:12	99:2	nurses 149:4	obviously 8:9,21	offering 9:22
needs 45:2,4	North 3:15,19	156:8,14	20:25 26:25	office 15:19
negative 18:15	NORTHERN 1:1	163:25	39:1 42:20	129:20 131:25
18:21	Notary 2:5	nurses' 163:12	54:19 57:24	132:19,21,22
neither 10:5	177:21	nursing 60:16	70:16 74:3	132:25 135:17
48:1 50:24	note 40:13,15,24	60:18 156:4,12	75:25 82:20	office's 133:15
59:10 134:1	121:4 169:2	O	88:1,8 89:12	133:21
179:12	notebook 5:19	O2 113:20	91:1 97:5,24	officer 22:3
Neuman 85:22	51:19	116:14,16	101:6 102:8	35:12 36:11,17
97:23	noted 128:3	oath 7:3 179:6	107:2,4,6,12	38:18 133:14
neurochemical 106:25	notes 41:19	obese 82:9 92:14	108:7,9 111:8	133:22 134:20
never 9:12 11:17	105:1 120:19	92:17 93:3	112:11 118:19	143:20 146:10
11:19 33:10,13	120:23 121:5	obesity 82:7,10	124:5,9 126:20	148:1,2 168:9
38:25 56:15,23	145:18	82:15 93:22	126:24 130:9	174:25
128:9 129:4	nothing's 134:21	107:13	135:12 138:24	officers 59:18
130:16 133:4,6	notice 5:18	object 37:4 46:6	145:5 151:19	148:13 149:14
134:7 139:1	115:25 116:9	47:22 48:15	152:6 154:1,12	oh 11:4 29:15
New 57:17 131:6	116:13,20	96:17 100:3	163:10 173:5,8	63:20 76:12,13
131:8 132:19	noticed 128:23	106:19 172:24	occasion 9:14	84:22 108:16
135:11	156:15	173:15 175:8	52:1 124:4	164:13 166:19
next-to-last 70:4	notwithstandi... 24:5 60:10,22	objection 161:6	131:21	176:20
Nichols' 29:15	60:23 113:2	161:25 169:2,8	occasions 91:22	okay 11:6,17
NIH 5:12 104:23	142:15 152:4	174:1 175:24	91:24 118:17	12:3 15:17
nitrogen 53:6	November 179:19	obligated 17:11	124:8 133:3	17:16 23:25
NMS 25:17	nuchal 133:18	obligations 57:15,15	161:4	25:2 26:14
Nodding 176:8		observation 37:11,19 80:18	occur 19:9 40:5	31:17 39:15
non-emergent 147:3		80:22 88:23	90:5 91:3	61:10,23 62:23
		90:8 163:4,17	120:9 127:12	63:1,13,20
			occurred 77:3,7	64:2,18 65:19
			77:16,19,19	69:21 73:2
			78:4,7,12,14	75:11 76:11,19
				76:21 78:22

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 23

79:5 81:20	36:15 52:17	144:17 145:6	131:17	P-O-S-T 143:21
83:9 86:11	open 11:9 68:6	147:5 150:15	organs 17:17	p.m 40:20 106:4
94:21 95:16,21	74:22 81:25	150:25 151:7	85:6	147:13 153:1,6
98:14 99:14	opened 30:24	152:8,11	origin 170:23	153:20 155:12
101:4 102:12	145:19	153:21 154:6	original 26:10	155:13 176:21
102:14 104:15	opening 32:12	156:11,13	27:19 75:15	PA 2:22 3:2
105:21 106:15	43:15	158:15 159:1,2	179:16	119:17,19
108:22 114:2	operating 8:17	159:3 162:6,12	originating	package 12:7,11
114:11 117:12	opine 147:21	166:1,10	26:13	12:16 26:3,3
118:24 121:8	148:8 151:8	172:18,20	orphan 91:13	38:5 106:9
122:12 123:5	153:3	173:5,8 174:18	ostensibly 93:10	117:2,25
123:12,14	opined 72:14	174:23 175:9	outcome 153:9	123:13 157:2
127:12 132:23	74:14,16	opinions 9:22	outlined 16:23	159:10,11
137:6 138:20	opining 58:18	10:10,17 11:2	107:8 171:24	page 4:2,16 5:6
141:23 142:3	151:14	13:20 28:2	output 47:2	5:8,9,11,12,21
142:10 150:25	opinion 8:6 10:2	35:18 39:8,10	102:2,11,23	5:22 25:11
154:22 155:6	10:7,19,20,21	62:2,8 70:5	outside 14:13	31:18,19,21,23
157:8 167:16	11:5 12:14	71:14,17	46:23 80:7	40:15 62:7,7
168:20 170:1,7	13:2 20:14	104:13 105:4	111:25	62:12,16 63:2
171:13 172:2,9	21:7,19,20	105:14 111:9	outta 135:6	63:9,11 64:21
172:11 173:9	23:8,25 24:4,6	112:9 113:19	overdose 127:18	64:22 68:1,16
173:18,24	24:13,23 25:2	118:12,21	overlying 53:3	69:25 70:4
175:23 176:1	25:6 28:7,9	123:8,19 127:4	overweight 85:2	72:5 73:2
old 5:14 106:11	32:23 36:22	143:4,8,12,22	OXFORD 1:2	75:12,14 76:11
Oliver 1:19 3:13	38:11,15,17	150:13 156:7	oximetry 34:5	79:9 81:6
7:2,11 40:13	40:6 41:22	158:24 163:18	34:12 41:13	82:17 84:15,25
40:15,18,19,22	42:10 43:9	165:1,23 169:4	43:2 53:25	85:19,21 88:10
41:4,19 42:4	46:5 52:14	174:10,13	74:14 75:6	90:20 94:25
42:13,14	53:18,23 54:18	opportunity	76:23 77:4,15	104:16 105:4
145:18 167:11	56:13 57:1	17:16 129:22	80:5 86:8 90:8	106:23 109:10
Oliver's 37:25	58:1 59:20,25	129:23	90:11 100:13	124:22,23,25
40:21	60:3 61:25,25	opposed 62:1,2	103:21 154:9	125:6,13
once 120:17	68:16 69:12	135:21	154:16 162:9	144:18 145:18
148:8	70:16,18 73:18	opposite 135:13	oxygen 34:7	145:21 146:4
one's 45:2,4,12	75:23 83:12	orange 97:4	42:17,20 43:6	147:2,12 149:8
94:15 109:22	87:25 95:12,13	order 45:2,4	66:6 90:11	149:9,12
110:2	103:18 104:7	109:18 118:11	93:12 112:10	150:11,12
one-by-one	111:7 116:17	118:21 158:24	114:11 154:10	160:6 167:8,11
172:19 174:15	117:5 118:19	163:10	oxygenation	177:5 178:1
ones 52:21 73:10	120:14,15	ordered 132:13	162:20 165:21	pages 4:9,21 5:5
110:10 123:22	124:9 127:1,3	135:4	166:3,6	31:17 40:18
123:23 138:23	127:9 128:15	Orders 25:12		85:16 104:15
158:1	143:6 144:10	ordinary 79:19	P	109:5 117:25
onset 21:23 22:8	144:11,12,14	organization	P 2:11,11	paid 120:7

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 24

PAINTER 1:15 2:20 pair 146:15 palm 160:7,8 panel 93:20,20 93:25 paper 15:9 120:22 134:4 paradoxical 128:3 paragraph 31:23 70:4 85:8,9,19,23 86:3 88:20 94:25,25 104:21 105:16 106:24,24 125:6,15 147:13 150:15 paragraphs 86:4 89:25 paralegal 7:20 paralysis 44:20 paralyzed 44:9 44:22 paramedic 148:2,5 paramedics 148:16,24 154:18 pardon 172:9 Parkes 4:19 part 10:16 21:16 31:24 52:10 68:24 79:9,18 102:13 124:9 126:18 134:5 151:7 157:12 partake 33:25 partial 90:10 particular 8:18 14:2,6 16:10 18:1 42:22 44:5 54:6	55:10 68:11 71:5 82:8 89:10 90:6 91:18 98:19 102:17 103:12 107:11 120:24 125:21,23 126:18 128:10 132:2 147:24 148:16 161:17 163:4 168:8 particularly 38:17 48:3 60:16 particulars 101:9 parties 179:13 party 133:1 pass 51:24 63:16 93:24 164:24 passage 74:21 97:25 99:9 102:4 passages 84:12 patently 107:20 108:10 pathological 165:5 pathologist 8:25 13:23 14:2 16:11,24 17:6 21:2 26:20 27:6,14,16,18 27:20,21 35:22 58:15 59:12 90:1 91:6 96:18 107:25 112:11 113:22 113:23 114:8,8 120:15 131:18 134:2 160:13 171:10,11 174:8 pathologists	14:5 27:12 28:13 44:4 45:10 54:23 71:19 91:8,11 96:14,20 110:20 124:1 130:4,6 131:10 134:16,18 pathology 5:4,6 5:10 8:2,3,3,3 8:16,20,21 9:7 12:4 18:24 23:11,18 26:15 33:13 55:8 57:17 72:19,23 72:24,25 73:6 75:8 80:1 82:17 94:24 95:11 96:3 97:1,13 101:23 103:10 126:14 127:7 131:9 170:8 172:15 patient 9:5,18 11:23 16:9 17:8 22:20 37:18 40:22,22 40:25 41:20 42:12,13,13,14 42:23 50:6,7 51:16,21 52:1 54:12 60:14,24 67:12,20 77:10 78:10 83:23 88:19,20 89:2 91:17,18 94:1 100:23 101:9 104:10 126:6,9 136:8 147:20 148:1,5,8 163:6,21,24 patient's 39:7 41:19 66:12 patiently 141:14	patients 9:15,19 9:21 11:22 42:24 43:8,8,8 52:20,21 67:15 119:13 137:25 paying 165:19 payment 7:21 pays 141:3 PC 2:14 PDF 117:18,20 pedantic 80:20 peek 63:5 peer 94:2 peer-review 93:20,20 peer-reviewed 69:10 70:17 71:8,9,13,16 71:17,22 73:24 73:25 74:1,6 93:25 97:19 98:25 103:4 people 53:14 83:6 87:9 90:3 91:1 92:15 112:8,25 113:6 113:9 122:22 127:21 134:23 perceive 27:11 37:13 perceived 28:5 percent 34:6 42:17 67:1,8 75:6 77:4 80:5 86:8 90:8 113:20 114:11 116:17 120:12 162:20 165:22 percentage 119:3,4 perception 33:24 35:14,17 47:9,10,11 perceptions 33:4	48:19 perfect 114:6 perform 163:7,9 performed 120:6 period 22:5 34:5 34:9,17,23,25 35:10,12 36:5 41:25 50:17 77:8,9 78:9 81:15 101:14 103:14 104:8 131:20 132:18 145:10 150:8 152:5 153:7,10 153:11,15,20 162:14 164:23 164:25 169:22 periods 108:6 permanent 135:11 perpetrated 76:25 person 9:9 18:18 22:10 23:4 26:23,24 28:5 30:14 32:9,11 33:11,14 35:2 35:12,16 37:10 43:3 44:11,13 44:22 52:13,14 53:16 55:9 60:25 69:18 70:18,23 75:7 77:5,17 78:5,9 81:15,17 83:2 83:3 89:9 92:10,14 93:3 93:4,6 94:9 101:13 102:18 103:15 115:21 122:24 128:9 128:21 135:25 136:3 140:6,9
---	--	---	--	--

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 25

144:15 160:15 165:15 171:5,6 175:5 person's 14:6 34:4 69:12,17 70:21,22 personal 1:6 120:17 172:14 172:17 personally 159:4 164:20 personnel 38:3 84:3 128:4 173:12 persons 1:9 perspective 16:24 pertained 138:3 pertaining 21:19 59:20 112:1 pertinent 121:3 perturbation 56:10 pH 51:8 53:3 128:15 Pharmacologi... 5:20 124:23 phenethylamine 48:25 49:7 phenomenon 18:25 19:8 98:7 PHILLILPS 63:20 Phillips 3:14 4:5 7:6,9 9:10 15:25 37:20 40:12 45:15 46:10 47:14,20 48:10,25 51:21 63:11,16,23 64:2,4,7,14,18 64:20 66:1 79:2,5,8,9	84:20 91:5 95:20,23 96:25 97:12 99:11,15 100:6 106:1,5 106:6 108:25 109:6,11,12 114:17,25 115:6 116:8,12 118:2,5 119:8 121:11,13,14 123:3,5,6 125:10,19 128:17 136:23 139:12 140:10 141:13 149:7 155:10 166:16 167:4,20 169:2 169:8 172:24 173:15 175:8 175:15,18,22 175:24 176:4,6 176:11,19 179:18 philosophically 141:5 phone 2:16,21 2:23 3:2,4,8,10 3:16,20 47:16 141:18 176:12 photo 16:1 156:21,24 photocopy 15:9 15:14 photograph 157:3,4 photographs 4:17 29:6 144:24 156:23 156:23 157:5 phrase 32:1,6 92:7 phrases 30:9 physical 17:6,7 17:10 40:17	56:7 88:14 99:6 145:8,21 154:3 163:9 physically 44:13 145:2 physician 8:6,10 9:11,12,23 10:5 11:3,18 11:19,24 17:11 140:18 163:6,8 168:9 physician's 90:13 physicians 3:7 8:13 10:20 35:23 87:9 92:5 93:17 149:4 166:21 physiologic 34:9 34:22 42:22 43:4 56:8,9,10 83:20 98:11 108:3 151:18 154:13 169:18 170:21 171:1,2 171:7 physiology 48:23 56:11 60:17 picked 129:16 131:18 picture 15:24 132:10,12 pieces 36:20 120:22 place 91:16 134:14,25 placed 79:19 98:4 143:9 160:6,8 places 134:16 placing 75:16 88:17 Plaintiff 1:10	2:13 7:14 12:4 25:23 27:2 115:12 Plaintiff's 9:25 12:11 26:4 121:15 123:7 123:18 157:19 Plaintiffs 132:25 plan 95:12,15 156:7 PLATA 179:2 play 41:15 124:9 played 13:24 23:25 108:5 playing 20:7 PLC 3:14 please 7:7 15:22 31:19 45:17,19 45:22 51:18 63:17 70:7 77:23 79:7 81:19 83:14,16 99:10,22 143:1 155:19 162:11 166:23 168:22 pled 130:7 PLLC 3:8 plugged 19:16 plugging 16:14 19:14 plus 39:22 65:24 PMRP 99:17,24 point 18:13 35:25 36:2 54:3 57:7 88:9 91:3 98:3 104:2 111:4 130:5,22 147:15 149:24 152:9 154:8,11 154:12,16,17 158:15 pointed 87:7 93:10 111:5	Pointes 167:25 168:2 police 22:2 30:23,24 32:12 35:11 36:11,17 38:18 39:23 43:16 85:12 133:14,22 134:20 143:9 143:19,20,21 144:23 145:19 145:20 148:1,2 148:12 154:20 161:23 168:9 174:25 political 130:18 133:2 poor 33:23 poorly 107:22 108:16 Poplar 3:9 popular 33:16 population 48:9 portion 52:12 87:24 posed 20:21 165:20 position 22:24 28:5,7 34:14 34:18 45:24 46:14,15 68:5 68:5 72:9,10 75:1,17 77:6 77:17 80:9,9 81:11,11,24 82:8,10 83:24 83:25 85:10,24 87:10,13 88:8 88:17 89:3,10 89:10 90:4,7 91:2 96:4,12 97:22 98:2,4 99:17 100:19 102:1,6,10,21
--	--	---	--	--

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 26

110:21 111:11 127:1,22 129:2 129:13 130:13 130:19 131:3,6 133:5 134:9 135:12,14,23 162:10,24 163:8 170:24 172:5,22 positional 53:20 54:17 61:15 72:10 95:24 96:5,12,22 97:23 110:21 111:13 112:1 138:3 Positional/Res... 75:13 positioning 99:18,24 150:18 151:3 153:4 positions 4:19 63:4 64:8,25 68:5 128:24 positive 18:3,13 18:20 130:10 possession 160:23 possibilities 18:22 possibility 16:20 19:3 21:11 80:15 possible 15:23 21:9 31:11 38:22 47:8,8 50:8,22 83:25 POST 143:20 Post-Mortem 12:14 postmortem 25:16 29:6 53:1,10	potential 24:19 126:21 168:12 potentially 68:7 68:12 74:23 pounds 76:25 77:5,7,16 78:4 78:18 79:17 92:16 pp 5:16 practically 148:10 practice 5:6 8:6 43:5 52:19 55:8 82:18 112:21 120:17 129:15 148:3 practiced 10:5 57:17 practicing 11:12 33:13 pre-mortem 29:9,10 53:2 53:15 precipitated 31:25 32:2,7 32:17 150:20 151:1,4,14,15 precipitating 150:18 153:14 precise 20:13 112:14 precisely 141:8 precision 112:14 152:14 Predicate 160:5 predict 53:2 predisposed 47:24 predominantly 8:20 131:1 prefaced 78:2 prepared 14:18 14:22 21:13 77:18 100:17	presence 144:3 present 49:8 50:17 149:22 158:5,6,18 160:16 162:23 presentation 137:8 presented 166:9 pressing 82:11 pressure 44:24 45:1,3,5,11 47:1,3 49:16 49:19 66:3 77:5,17,25 78:4,19 80:3 90:10 144:5 149:8 prevented 152:10 153:6 previous 8:5 9:13 119:14 124:4,8 131:21 161:4 previously 50:21 51:1 113:25 116:24 128:24 PRICE 1:13 2:19 primary 54:12 119:24 Principles 5:6 5:22 82:17 125:11,12 prior 9:6 11:21 11:21 43:14 179:7 Priority 65:25 prison 137:18 138:1 private 115:20 privileges 136:14,16,24 probability 24:20 114:1	153:15 154:4 probably 46:20 47:3 60:6 61:5 100:9 107:18 114:4 146:19 159:20 problem 43:4 61:3 98:11,18 151:6 152:17 problematic 24:2,8,16 44:5 44:6 60:8,13 60:19 61:1,4,6 71:10 113:5 126:6 168:18 problems 13:7 137:25 167:23 procedures 143:20 proceed 60:1 64:19 142:14 142:15 143:1 proceedings 179:11 process 18:6,14 82:23 108:1,2 processes 18:16 produce 75:18 79:11 139:11 professional 2:5 158:15 179:5 Professionals 5:24 profitable 136:22 program 117:20 progress 174:24 prolongation 168:3,4 prolonged 22:11 22:13 28:14 34:4,9,13,23 34:25 36:5 147:9 169:22	promised 124:14 prone 69:19 72:9 77:6 80:9 81:11,23 83:25 85:11,13 88:17 96:3,11 99:17 99:18,24 102:1 102:10,21 110:21 111:10 112:25 172:5 172:22 proof 79:19 prosecuting 9:20 59:9,19 133:16 135:19 prosecutor 59:14 protuberance 85:4 provide 105:20 148:12,13,21 149:3 159:18 provided 9:4 12:22 14:13 123:6,17 124:6 148:19,24 157:10 158:23 provider 114:14 115:2 145:17 providers 36:24 37:6,22 38:8 38:21 162:23 providing 39:8 province 59:1,17 59:19 prudent 158:12 psychosis 40:16 128:20 psychotic 128:17,19,22 pub 137:8 public 2:5 120:7 177:21 publication
---	--	--	--	---

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 27

70:25 73:5 95:8 97:9 102:25 104:24 105:18 109:18 109:25 110:1 publications 71:24 103:9 137:6 publicly 129:24 publish 93:18,19 published 22:15 23:3,5 24:22 28:7 38:22 55:4,21,25 58:3 65:1 69:2 71:9,17,23 73:24 74:1,2,6 97:4,11 99:4 104:11 126:15 166:11 174:17 publishes 97:3 PubMed 64:9,10 puff 66:23 pulmonary 19:11,13,16,20 19:22,25 60:17 69:20 75:18,19 79:12 80:10,14 81:8,11,25 82:2,4,11,16 83:1 102:15 103:24 104:1,9 pulse 34:5,12 41:13 43:2 47:3 53:25 74:14 75:6 76:23 77:3,15 80:4 86:8 90:8 90:11 100:13 103:21 154:9 154:16 162:9 punch 63:19 punching 68:22 puncture 146:16	146:17,25 purchased 160:17 purpose 7:17 128:9 purposes 15:7 36:9 113:19 148:10 pursue 59:16 pursuing 133:23 put 37:15,17 55:2,23 78:20 115:16 120:23 121:2 134:4,8 140:7,9 171:12 171:21 putting 77:16 172:4 <hr/> Q QT 168:3,4 qualification 175:9 qualified 8:5 120:14 qualify 73:17 147:23 quantify 150:6 quantitate 153:13 quantitated 122:15 quantity 160:16 question 9:13 10:24 11:1 18:19 20:13,21 22:22 34:3 41:5 43:12 45:15 46:3 56:3 60:21 61:2 66:17 67:7 76:14,17 94:7 95:10 96:18 100:4	105:3 110:7,9 113:14,17,25 114:19,24 115:14 136:5 142:13,14 149:2 150:4 152:16 153:24 156:22 161:17 161:21 162:11 162:12 165:13 165:20 167:14 170:15 171:9 171:19 questions 45:20 54:11 79:6 126:21,21,23 127:6 141:14 141:16,18 149:7 162:19 162:21 166:14 166:21,23 167:10,19 172:7 175:14 176:11,13,16 179:9 quick 94:14 152:1 155:10 quickly 151:21 quite 31:9,11 32:10 35:11 54:25 83:17 107:10 120:18 151:25 quote 169:6 <hr/> R R 2:11 3:8,14,18 179:18 R.G 1:8 RAINEY 3:14 raised 84:3 ran 129:8 130:15,17 132:25	range 67:4,9 93:1 rare 120:8 rarely 82:23 rat 56:9 rate 46:20,22,23 66:9 141:8,12 rated 130:5 rational 30:9,14 reach 16:4 18:17 40:8 57:11 68:10 69:15 75:5 104:11,13 113:24 reached 37:12 37:21 40:8 59:12 62:18 74:10,24 75:1 75:4 76:6 80:23 86:5 111:5 161:11 reaching 38:14 103:11 reaction 127:18 reactive 17:8,12 read 10:10,18 12:6,9 20:2,12 25:11,11 26:14 32:20 37:1,3 37:25 38:4,6,7 38:12,16 39:10 61:20,22 68:1 71:2,20 75:10 77:24 81:22 82:20 83:13 84:20 85:9 88:1 89:22,25 90:13 91:11 97:13 99:2,8 99:22 100:7 101:5,11,20 102:3 106:13 106:14 107:4 110:4,14,15,16	124:5,7 149:20 150:23 167:8 168:8 170:11 177:3 reader 55:6,11 55:14 reading 34:6,12 41:13 43:2 53:25 61:14 68:8 71:25 74:14 75:6 77:4 80:5 82:17 84:17 86:8,22 90:1,8 100:13 106:21 112:10 124:1 124:22 151:11 162:20,24,25 165:21 reads 145:22 reaffirm 159:2 reality 122:19 really 10:24 81:14 83:6 reason 38:13 41:25 62:5 72:14 81:5,7 81:12 87:18 103:12 105:3 112:20 120:25 126:1 130:1,23 134:4 147:23 154:14 161:18 165:10 173:6 175:5 178:1 reasonable 13:23 14:1,5 15:10 22:14,17 42:5 43:16,21 54:5 55:24 80:1 96:14,18 150:16 153:3 reasonably 14:3 18:9,22 19:15
---	--	--	--	---

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 28

148:23 reasoning 58:6 reasons 78:8 101:7 110:23 recall 12:21,24 14:10,15 26:17 28:12,14 29:4 29:8 30:13 32:21 33:2 37:14,16 38:8 49:1 50:15,16 63:5 66:4,11 66:13,17 67:10 67:22 80:16 82:2,4 91:20 97:11,24 99:8 111:22 138:3,7 138:14,16 140:5,13,20,24 149:18 150:1,1 150:2 157:7 159:10,11 160:9 162:21 163:20 164:19 167:6 170:17 172:6 recapitulate 77:12 103:17 receive 8:17,23 9:21 received 9:15 12:7,11,17 21:24 22:1 25:24 26:13 27:3 106:8,9 106:11 121:24 122:7 126:24 129:4 157:18 159:7 161:7 175:6 receives 171:3 recess 47:18 106:3 155:11 recklessly 60:21	recognize 26:23 26:25 73:7,9 73:15 91:6,7 95:16,22 98:22 147:15 recollect 50:19 recollection 32:22 33:3 37:15,16 146:20,23 recommend 88:25 recommended 126:10 record 15:8 22:4 27:6 36:13,18 37:3 38:19,21 38:22 39:2,4 39:24 63:25 64:1,3,19,21 65:21 78:6,21 99:13 106:5 112:19,24 114:21 115:2,7 117:13 121:10 121:12,13 122:18 145:15 146:8 155:11 162:17 164:6 168:23 recorded 93:16 recording 135:7 records 29:18 31:20 40:9,13 40:14 104:18 118:10,24 122:16 149:10 161:7 162:3 163:14 167:5,8 recount 40:24 recounts 35:12 recreational 127:19 Redefining 5:14	106:11 reduced 151:23 reduces 102:22 Reducing 4:22 70:1 reduction 66:25 67:5,7,12,15 67:19 reductions 68:4 Reexamination 97:22 refer 32:1 35:11 72:10 84:5 86:24 135:19 reference 36:25 42:12 49:15 75:11 76:7 80:8 82:13,14 82:25 85:16 87:16 90:19 94:20 95:8 110:25 114:14 122:24 124:18 124:20,21 125:20,21,23 125:24 126:3,8 126:13,19,23 127:8 144:23 145:16,24 146:16,19,25 161:18 162:3 referenced 13:3 29:11 53:22 125:8 126:17 144:18 160:10 references 62:20 89:16 90:25 95:6 126:11 127:5 152:15 referred 86:19 107:4 109:16 referring 31:12 45:24 48:17 107:2 136:4,6	refers 98:16 refine 46:10 reflect 71:11,14 71:17,24 141:15 reflected 137:4,7 reflective 71:4 refresh 112:7 refreshed 41:18 regard 21:19 24:12,23 28:2 72:5 74:24 75:1 116:20 143:8 150:4 156:22 161:21 regarding 10:18 111:10 166:2 174:14 regardless 43:20 43:20 Regional 129:22 130:3 136:17 Registered 2:4,5 179:4,5 regular 52:22 regularly 71:2 96:19,21 103:6 rehired 131:14 reiterate 100:11 166:8 174:25 reiterated 104:2 reiterating 152:21 reject 35:20 106:18 relate 31:1 related 31:4 52:11 60:4 95:2 119:4,22 120:6 124:22 133:18 136:2,7 136:9 137:18 137:25 140:16 140:16 147:1	170:9,24 179:13 relationship 23:7 42:15,16 55:12,14 56:19 56:20 130:4,9 134:15,17 relationships 23:13,14 55:13 relative 25:2 44:23 relevant 27:17 75:20 79:11 84:13 85:25 89:7,15 90:9 95:10,13 103:16,22 127:5 reliable 36:21 73:5 reliably 53:2,15 relinquished 129:15 relinquishing 60:24 rely 97:15 99:2 105:19 113:20 remainder 160:23 remained 133:2 remaining 67:3 125:19 remains 68:5 remember 57:8 61:17 81:6 84:15 97:10 139:19 160:4 167:20 REMEMBER... 2:1 Remembering 49:17 renal 53:10 render 143:22
--	--	---	--	---

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 29

144:16	156:15,17	require 42:19	167:12,16,17	54:20 55:2,10
rendered 156:8	160:5 161:14	89:12 106:20	168:6,11	61:16 63:4
rendering 143:8	161:19 171:12	required 7:21	169:16 172:6	64:7,25 68:4
147:5	171:22,25	9:23 57:18	173:7	68:11,17 69:16
repeat 112:21	173:9 179:8	92:2 139:11	respond 43:5	71:6,10 72:10
113:5,10,11	reported 36:24	requirement	46:17 99:9	72:13 73:23
114:5,25	125:3 146:6	34:6 93:12	171:6	74:20 80:2,9
142:13 157:14	reporter 2:4,4,5	requires 11:2	responded	81:24 83:3,4
repeated 112:24	37:3 40:10	Requiring 6:8	167:10	85:10,11,11,24
112:25 113:3,9	44:16 97:7	research 69:8	responding 89:5	85:24 86:25
114:3	119:18 128:13	75:14 111:10	response 8:8	87:5 95:24
repeatedly 170:1	136:18 141:21	reserving 176:20	20:22 31:6,7	96:4,11 97:22
repeating 41:2	142:2,4,6,22	residency 12:1	31:11 39:17	98:1,12 99:6
114:19	154:25 155:3,7	resign 135:2	47:12 81:4,7	99:17 100:24
repetition	157:11 164:11	resigned 135:10	83:20 102:16	102:1 107:24
142:14	164:13 173:20	resolution 152:1	133:20 139:20	108:1 110:21
rephrase 149:2	173:24 176:5,8	152:2 153:13	153:18 165:23	111:11,23
report 11:4,10	179:4,5,6	respect 9:13	responsible 98:3	127:13 136:2,7
11:11 12:6,6,9	Reporter's 4:10	45:18	rest 108:5 171:7	136:10,10
12:10 13:5	REPORTING	respiration 22:7	restate 162:11	137:15,19,23
14:11,12,13	2:6	52:12 79:21	restated 79:14	138:1,7,15,15
20:3,10,23	reports 13:13	84:1 100:20	79:17	138:15 140:16
21:3 25:17	26:1,14 118:18	172:23 175:4	restrain 50:8	149:15 150:8
26:4,9,10,11	125:16 167:3	respirations	restrained 43:10	150:18 151:3
26:12 28:19,24	repositioning	22:20 23:3	43:15,18,18	151:15,22
29:2,3,11 30:2	151:22 152:7,9	168:11	44:8,11,12	153:25 162:10
31:17,18 32:17	153:19	respiratory 22:9	45:23 47:4,21	166:2 170:24
40:7 48:7	represent	22:14,18,19,25	48:12 49:17	172:5,21
53:17 55:6,11	141:25 155:4	24:11,22 25:3	50:11,20 51:1	173:11 176:3
57:7,9 62:6,16	155:15	34:10 40:19	69:19 74:11	restraints 4:23
63:3,8,12	representative	42:8 44:25	83:7 127:22	46:1,9,13,21
64:22 68:3	1:6 133:22	45:6 48:19	136:1,6	46:23 48:13,18
70:1 72:5 95:3	representatives	52:12,17 53:3	restraining	48:21 50:3,4
98:6,17 104:15	27:10	53:25 54:20	44:12 82:23	54:7 56:1,5,7
105:14 106:7	representing	55:15 60:8,14	88:19,20	56:18 57:3
109:14 110:19	7:11	60:24 76:22	restraint 4:19	70:2 86:18
111:1,4 117:8	reputable	85:4 86:16	6:5,8 41:13	98:8 101:1,13
123:14,23	172:12	88:7 89:6,17	43:21,23,24	128:6 136:8
127:10 128:1	request 116:6	90:11,14 98:2	44:1,5,6,19,20	150:19 151:8
140:25 144:18	140:11,21	98:21 102:7,8	44:22 45:8,11	151:13 152:9
146:1,1,4,8,15	158:10 165:18	128:5 151:23	45:13 46:4,7	153:5,19 173:6
146:17,25	requested 157:9	151:25 152:2	46:16,20 48:17	175:6
147:12 149:9	157:17 158:7	153:11 154:4	48:24 49:23	restrict 99:19,25
150:6,12 153:1	165:16	162:7,13 167:5	53:24 54:4,6	restricted 49:22

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 30

136:24	18:24 26:1	128:25 137:12	179:22	says 25:24 31:20
restricting 81:11	28:19,24 29:3	142:22 145:16	RPR 179:22	31:24 35:24
restriction 82:15	29:6,15 103:7	149:17,21	rubric 10:16	40:24,24 68:3
restrictions 68:7	105:19 110:17	154:9 155:17	rugby 108:5,6	75:14 79:18
restrictive 75:18	110:17 112:1	157:3 161:16	rule 12:9 14:13	85:23 90:9
restricts 82:11	117:15 118:11	165:15 166:22	139:14	92:20 94:17
resulted 153:21	118:21 139:8	171:15 175:13	ruled 171:22	104:17 139:15
161:4	144:20 156:16	175:22 176:17	run 32:9 44:2	140:25 171:10
results 11:22	156:17,23	Rio 2:8	129:9 133:3	SCALLORN
12:15 34:1	157:5,21 158:3	risk 4:22 47:20	running 30:8,15	1:13 2:19
68:11 69:16	158:14 164:16	48:8,14 70:1	32:11 43:15	scene 29:9
75:19 78:16	reviewing 12:21	risks 86:14	44:11 46:23,24	148:13 163:6,8
79:15 96:4,12	114:21 128:23	RMR 179:22	46:25 136:4	scheduled
resume 47:15	Reviews 5:16	RN 38:6	runs 140:15	165:12
resuscitation	109:8	Road 2:6	rushing 93:17	science 74:4,4
22:2	revoked 136:24	Rob 134:2		98:22 102:24
retained 27:23	revolving 168:19	Roeggla 6:5	S	scope 169:3
138:23 179:16	RICH 1:13 2:19	role 13:25 20:7	S 2:11 3:3 4:14	scream 41:1
retainer 121:23	RICHARD 1:16	23:25 27:5	5:1 6:1	52:2,3
121:25 122:7	2:20	35:19 53:20	Safety 5:23	screaming 37:7
retired 129:20	right 7:15,22	room 2:8 8:17	salary 119:11	51:22 128:3,10
retrieve 62:23	13:11 17:1,4	9:11,12,23	sample 27:17	scrutiny 93:24
70:7	20:18 23:23	10:5,6 11:3,18	samples 27:18	se 26:18 138:1
retrospectosco...	24:12 25:10	11:19,23,24,24	SAMS 2:22	seal 179:17,19
163:3	26:21 30:3	12:1 28:18	Samuel 6:8	SEBRING 1:15
reveal 28:7,8	33:16 38:9	34:20 35:17	San 2:7	2:20
107:1 158:16	40:13 52:3	37:12 39:7,9	saturation 42:17	second 5:4 68:15
revealed 133:25	53:18 54:9	39:13 49:19	43:6 66:6	72:19,23 75:8
REVIERE 3:14	58:3 59:7,17	50:18,21,25	112:10 113:20	90:3 93:21
review 5:17	61:8,16 63:16	51:1 78:20	114:11 116:14	94:25 107:25
12:20 26:9,24	64:12 65:3,11	115:16 117:16	116:16	109:7 127:8
29:18 52:22	65:13 68:13	128:18 132:8	saw 16:18,22,25	133:24,25
56:24 58:25	69:13,23 70:2	139:5 147:17	19:6,8,24	134:2 147:13
64:4 67:24	72:6,18 75:1,3	148:6 159:23	20:12 40:22	149:17 151:7
94:3 100:9	76:8 78:2	159:25 163:16	41:20 42:4,12	152:24
103:6 106:6,10	89:21 90:16	163:21 175:6	42:13 47:25	secondary 37:12
110:9 139:22	91:25 99:12	rooms 37:10	156:21	54:13,14,16
156:18,25	101:11 102:7	Ross 95:19	saying 42:6 56:9	seconds 84:9
157:9,17,20,22	103:11 104:13	rotation 131:14	56:10 78:14,16	section 72:17
158:10,13,16	110:13 116:1	131:15	88:2 90:24	105:15 160:6
159:17 162:3	116:10 117:23	rough 22:11	94:13,15	sections 158:17
164:19	118:1,15	routine 112:19	108:13 114:22	secured 50:3
reviewed 14:22	120:21 121:6	routinely 131:16	153:18 170:20	securely 146:22
15:8,15,25	123:17,21	Rowe 2:3 179:4	173:21,23	see 9:2 11:22

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 31

13:6,9 15:21 16:6,7 18:23 19:7,11,14,18 20:15 25:12,13 25:17 30:20 32:1 39:22 42:13 48:6 49:5,7,21 51:18 58:25 62:10 65:15 68:18 77:24 84:10 105:1,4 105:5 113:18 129:17 141:15 145:7 146:25 149:16,17,23 166:23 172:3 seeing 32:9 43:7 seen 9:19 15:3 19:1,13,21 20:24 33:8,9 33:11,13,14 36:12 38:9 40:6,7 78:23 91:16 115:25 117:25 158:1 158:17 159:12 sees 16:23 segment 143:19 seized 129:23 semantics 13:17 91:9 103:13 send 121:22 senior 129:20 sensation 32:25 sense 16:6 18:11 28:1,9 30:9,14 45:1 47:10 71:11 72:12 89:22 90:25 101:12 106:16 128:3,8,9 163:8 170:19 sensitivity	112:12 sent 122:5 sentence 31:24 32:21 79:18 83:13 85:9 98:16 106:23 108:19 111:2,3 121:3 sentence-by-s... 88:2 sentences 108:9 separate 8:15,15 57:21,23,23 sequence 32:23 145:6 series 33:3 173:13 serious 115:22 145:12,14 seriously 9:25 10:1,7,19,20 113:5 serpiginous 16:16 served 116:1 SERVICE 2:6 services 83:23 115:12 129:19 session 47:19 106:4 155:12 set 53:17 179:9 setting 55:15 80:2 settlement 132:17 severely 33:25 60:8,13,19 61:6 Sherry 2:3 179:4 179:22 ship 129:25 short 7:9 9:8,9 35:11 47:15,16 131:9	shorthand 2:4 179:5,9 shortly 47:16 82:22 shot 136:4 146:12 should've 25:24 77:14 shoulder 145:22 show 26:11 82:1 94:15 149:20 showed 38:5 showing 118:24 sic 12:13 48:22 75:18 82:19,22 85:20 86:21 100:12 150:21 side 19:1 47:5 side-by-side 131:5 sign 94:10 170:12,18 signature 176:20 177:1 Signature/Cor... 4:9 signed 40:15 significance 49:11 67:20,23 significant 16:21 21:8,15,21 41:14,25 42:22 42:24 55:18 68:3,6,11 69:16 74:12,23 80:10 81:24 92:6,8 96:10 100:20 120:24 121:1 151:19 153:10 154:17 significantly 16:12 22:19 53:24 54:7 74:15 92:17	153:14,15 signs 66:12 88:24,24 94:4 similar 41:23 47:6 118:16 124:4,8 similarly 1:8 66:13 143:22 simple 113:14 113:16 simplify 171:9 simply 41:18 46:3 110:9 146:13 single 88:12 156:21 sir 32:4 79:8 sitting 89:3 situated 1:8 situation 60:23 103:17 113:6,7 131:24,24 136:22 163:2 situations 49:16 six-month 131:14 sixth 31:18 slide 158:20 slides 4:17 12:17 14:17,17,22 15:2,4,7,9,11 15:14,21,25 16:4,18,20,25 17:20,23,25 18:24 19:12,14 19:21,23 118:7 157:20,25 158:4,5,6,7,13 158:14 slight 21:23 slightly 149:2 slowly 142:18 small 134:13 smaller 129:15	smartphone 15:24 63:15,21 smooth 16:15 snapping 174:19 sober 30:9,14 socially 30:25 sold 129:19 160:15 solely 83:17 somebody 32:24 35:20 50:8 172:4 175:6 someone's 33:22 son 156:22,24 157:4 sooner 152:16 153:8 sorry 37:1 40:10 44:16 63:9 85:22 97:7 107:15 119:18 125:12 136:18 152:20 156:2 157:11,12,14 166:19 172:5 sort 36:4 124:11 152:25 sought 115:12 sound 40:4 99:12 sounded 10:14 source 68:15,20 69:25 71:2,19 160:7,18 sources 62:13 South 2:22 Southaven 1:12 2:19 141:25 142:25 143:9 147:16 Southeastern 1:18 3:7 166:21 Southwest
--	---	---	--	---

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 32

129:14 speak 82:6 142:18 speaking 9:17 100:9 111:23 148:20 153:12 153:23 160:20 164:10 specialty 8:1,9 8:16 131:12 specific 16:19 18:13 32:21 33:2 37:15,16 49:21 61:17 63:5 80:17,19 80:21 81:8 82:2 87:4,12 89:19 90:5 91:17 92:12,22 97:25 102:4 105:9,10 109:21 112:8 122:24 124:21 143:9 144:7 145:17 146:19 148:22 163:24 164:1 165:18 168:4 specifically 13:12,18 14:15 16:8 20:19,20 23:15 24:9,10 30:7 39:4,18 49:1 56:11,24 61:18 80:14 90:13 97:10,24 98:6 99:8 103:9,16,20 104:6,8,10 110:2 118:20 124:6 139:15 146:14 147:9 149:18 160:9 specificity	112:12 specifics 100:10 103:19 specified 79:17 80:17 170:17 170:22 specifies 146:2 specify 46:7 69:20 82:4,9 86:25 152:15 speculation 21:11 46:9 134:5,7 SPENCE 1:16 spend 125:24 spent 10:11 60:20 122:2,3 122:13,16 Spitz 84:25 85:16 Spitzer 86:21 splitters 21:5 170:16 spoken 111:20 159:4 168:5 spppha 126:1 ss 177:15 179:1 STACIE 1:14 2:19 staff 9:9 121:16 stage 174:20 stages 174:23 stand 33:7 standard 9:23 10:10 11:2 55:8 59:25 61:12,13 112:21 143:23 148:3 149:4 156:7,11,12,14 standard-of-c... 61:7 175:9 started 33:13 39:24 122:13	130:25 state 7:7 22:13 27:7,9 28:5 31:14,24 32:2 32:7,17 53:10 53:15 56:16,17 56:24 57:16 59:9 89:17 104:9 110:20 129:5 133:9 135:21 137:2 138:10 141:3 145:12 146:9 177:15 179:1 stated 10:4 13:4 47:25 71:8,18 96:22 98:17 100:22 102:17 103:13 126:5 143:13 148:18 154:1 168:6 170:21 174:10 statement 20:11 23:24 42:20 56:25 58:20 68:2,8,9 69:18 72:2 75:21 76:1,2 78:2 79:13,22 81:1 81:20 82:2,21 83:5,11 84:5 86:1 87:15 94:8 98:5 99:21 100:6,8 100:12 101:3,5 101:11 103:13 103:17 104:14 104:17 105:10 108:17 109:21 126:11 146:11 147:3,8,23 148:25 149:13 149:16,17 163:1	statements 75:11 81:5,8 81:22 82:1 149:19 states 1:1 68:16 84:23 88:11 98:1 124:25 125:2 131:16 145:18 146:4 147:13 150:16 stating 80:16 158:2 statistical 67:19 statistically 68:3 92:6,8 status 53:2 102:7,7 147:25 169:14 stay 135:13 staying 133:9 Ste 2:15 3:3,9,15 3:19 stenographic 179:9 stint 131:18 stomach 45:3 stop 23:5 132:2 132:5 stopped 35:8 52:16 129:6,9 129:11 130:15 130:16 131:22 straightforward 24:18 straining 54:4 86:18 128:6 strangle-hold 140:7,9 strangulation 138:18 straps 50:13,16 50:23,24 Stratton 6:9 176:9	straw 151:17 straws 151:17 Street 2:22 3:3 3:15 65:25 strength 101:1 strenuous 75:17 stress 83:20 strict 23:11,12 23:17 strictly 9:17 strike 146:22 strong 55:12 struck 146:13,23 struggle 22:12 22:13 34:13 43:24 45:13 46:1,4 48:20 54:6 56:7 57:3 57:5 58:10,14 58:15 75:17 88:15 98:8 100:24 152:5 173:11 struggle,' 170:13 struggled 43:11 43:14 101:13 struggles 46:12 struggling 35:9 46:19,21 48:13 113:11 student 144:8 students 111:19 studies 25:16 49:5,8 76:3 77:1,9,12,20 85:22 94:22 96:2,6,9 103:22,23 104:11 172:12 study 65:5,14 66:1 69:8 71:4 71:7,16 80:24 81:4,5,7,22 stuff 172:10
--	--	---	--	--

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 33

style 149:10	26:7 34:2,8,24	65:19 69:22	T	2:16
subclavian	35:1 47:20,24	support 51:15	T 4:14 5:1 6:1	telephone 59:10
25:18	48:2,8,14 63:3	83:12	12:18	tell 11:17 16:7
subdued 35:16	64:7,24 68:17	supports 80:8	T-H-A-R-P	22:25 23:1
37:14	73:22 87:21	87:24 95:12	164:14	31:10 32:6
subject 74:3,9	95:16 98:4	suppose 13:17	Tab 12:11	38:9,17 40:1
82:23 111:9	169:6,20,24	46:11	table 81:21	40:14 60:7
135:8 170:4	173:13	sure 42:8 63:23	124:18	63:7 75:12
175:24	suffice 174:1	77:22 95:21	tabs 117:2	80:4 85:18
subjects 99:16	sufficient 40:7	118:3 126:14	take 7:18 15:24	86:20 93:16
99:23	55:3,7,16	128:20 137:5	27:17 35:19	101:4 108:25
submit 122:16	107:17 158:23	140:8 153:17	41:6 47:15,16	119:8 120:4
122:17	sufficiently 54:8	169:16	53:16 63:5	124:19 133:6
submitted 122:1	55:18	surgical 8:16	78:9,13 81:14	141:2,5 146:14
122:9	suffix 65:7	surmise 11:20	101:10 106:1	146:18,24
subpoenaed	suggest 19:2,24	surprise 28:16	107:24 132:10	152:16 160:14
26:22 27:2	47:23 58:18	surprised	146:19 152:1	telling 83:6
subscribe 97:5	suggested 19:9	169:13	153:24	temperature
Subscribed	suggesting 32:24	survival 153:16	taken 2:7 29:19	92:22
177:18	suicide 57:20	154:5	29:25 47:18	temporal 23:6,9
subsequent	suicides 125:2	surviving	48:11 73:25	23:12,19,20,22
27:18 28:6,8	summarize	153:22	78:15 89:24	55:12,13,14
79:10 95:6,7	34:21 126:3	Susan 160:4	106:3 137:1	ten 22:3 35:13
109:18,25	summarized	susceptible 85:3	144:19 155:11	tend 168:10
122:1 132:6	100:10	suspect 11:8,15	177:3	tended 48:22
133:3 140:17	summary 12:13	15:16,19	takes 17:6	tender 154:24
145:3,10	66:4 79:23,24	suspected 113:4	talk 139:15	Tennessee 1:19
150:19 151:7	124:11 175:3	sworn 7:3	talked 55:12	2:15 3:9,15
151:12 161:24	summation	177:18	61:8 80:23	term 52:12 59:5
174:10	174:17	sympathomim...	93:8 95:14	59:5 92:5
subsequently	superficially	83:19	109:15 123:16	135:17 138:9
26:24 120:8	75:25 77:11	symptom 94:11	123:23 127:9	138:12,13
substances 13:7	superior 148:21	symptoms 33:2	133:15	169:17
13:21	148:24 163:11	94:4	talking 30:8	termed 128:19
substantial	supervision	syndrome 5:9,13	87:21 89:13,14	terminated
52:10	147:25 148:2,5	5:16 73:1	94:9 116:13	39:25 135:1,10
substantially	supervisor 132:2	88:11,18 92:4	170:8	termination
38:18 130:1	132:4,6	106:9,11	tangentially	129:4 135:2,10
170:24	supine 46:11,14	syndromes	125:8	terms 21:5 24:7
substantive	47:4 83:24	107:3	Taser 146:10,12	76:24 102:20
150:11	127:22	system 161:15	146:17	terse 21:6
successfully	supplemental	systemic 157:24	team 88:23	test 34:15 51:8
113:8	26:9	158:5,18	89:13,14,14	51:14 60:11
sudden 4:19 6:7	supply 62:24		tedwards@bb...	75:19

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 34

tested 161:1	62:19 72:1	106:22 107:18	42:16 43:15	84:10,11 95:14
testified 7:3 8:11	73:7 81:2 82:6	107:20 108:10	47:14 50:17	105:12 111:5
137:24 140:14	84:6 86:24	109:8 112:5	58:24 60:20	116:1 117:15
151:24 159:23	91:1 95:11	114:25 115:1	61:25 66:12,18	122:14 123:24
160:3 161:13	123:21 174:17	118:9,9 124:17	77:8,9 78:9	151:24 157:1
testify 7:14	thank 7:25 12:3	125:19 136:5	81:15 90:9,15	TODD 1:12 2:19
119:6	51:20 68:23	137:19,21	101:14,20	told 12:24 56:17
testimony 38:14	84:19 93:21	139:12,14,14	103:14 104:8	90:20 92:9
39:6 124:12	110:13 115:4	145:1 154:5	120:4 121:2	110:16 112:5
138:2 140:11	125:7,18	155:8,25	122:2,13,16	135:3 139:6
140:20 141:4	142:21 150:15	156:19 159:11	124:13 125:25	170:25
149:13,24	154:23 166:13	161:20 166:12	131:20,21	tomorrow 155:9
152:23 165:2	174:6 176:18	169:23	132:18 136:1,8	top 32:3
173:16 175:1	thanks 63:13	thinking 29:4	141:10,10,17	topic 41:22
177:6	157:15 173:24	third 5:10 85:8	145:10 146:20	72:13 84:11
testing 8:14 51:5	Tharp 36:24	98:20 144:18	150:8 152:9,25	85:8 91:13,13
51:7 111:10,15	42:11 164:10	thorax 79:11	153:10,11,14	91:14 96:10,11
163:10	164:12,14,20	thought 21:8,16	154:20 161:9	111:6,15,17
tests 18:4 19:13	theoretical 90:7	76:13,15	162:11,14,23	123:25 157:21
19:19,20,20	therapeutic	113:14 114:4	164:23,25	172:8
79:10 102:19	25:19 128:8	121:1 139:21	166:16 167:15	topics 73:8
163:7	Therapeutics	thoughts 139:24	174:7	111:24 127:6
text 28:7 73:1	5:20 124:23	140:2	timeline 36:21	Torsades 167:24
80:6 83:9 84:8	therapy 34:7	thousand-dollar	41:7	168:2
84:10 85:17	42:20 154:10	7:21,24	timeout 106:1	total 28:17
86:15,21,23	thereto 177:5	three 8:9 56:23	times 61:22	154:18
87:17,24 88:6	thermic 93:5	86:3 89:24	103:7 122:3	totally 153:17
88:25 89:17,18	thing 50:6	119:24 120:5	133:19 164:1	touch 84:13
90:19 95:17,24	133:25	120:17 124:20	timestamp	touched 143:11
107:8 125:19	things 21:3 42:5	132:12 135:4	36:18 37:11,15	144:1
126:14,16,18	111:4 116:4	throat 35:3	163:19	touching 132:5
127:5,8	118:20 152:6	tied 46:11 85:13	timing 37:13	toxic 57:2
textbook 9:3	think 13:23	85:14	152:12	toxicological
26:6 83:11	27:21 29:4	Tim 2:14	Tintinalli	48:5 56:22
84:13,23 87:6	34:7,24 35:1,1	time 7:9 8:13,13	125:20,24	toxicology 8:22
87:15 88:4	41:21 45:18,25	9:4,10 11:21	tire 44:2	12:14 24:7
94:15,23	53:20 59:20	11:21,23,23	title 63:5 64:6	25:16 48:7
125:12	62:7 64:19,23	22:5,8,15 23:1	68:16	49:5,8 161:14
textbooks 10:3	79:4 83:12	23:3,3,4,5 34:5	titled 63:3 70:5	traditional
53:22,23 56:24	86:23 89:25	34:9,23,25	today 7:11,18	15:12
87:13 124:17	90:20,21,25	35:8,10 36:12	11:16 12:16	train 35:22
124:20 174:11	91:15 95:10	36:14 37:8,16	15:8,16 31:15	trained 10:6
174:13	96:7 103:8	38:21 40:19,22	31:16 36:16	131:13 143:21
texts 10:13 55:1	104:16 105:7	41:25 42:3,14	62:15,25 65:19	149:4

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 35

training 8:21,22 8:23 10:7 12:1 54:2 60:16,25 70:21,22 71:10 143:18 144:7,8 transcript 177:3 transcription 179:10 transcripts 58:25 transfer 147:6 transferred 147:4 transitioned 147:16,22 148:10 154:18 154:20 transport 83:23 transportation 148:14 transported 35:17 143:24 163:22 trauma 8:23 43:8 107:1,23 traumatic 108:1 108:2 treat 52:5,8 93:12 119:13 128:9 treating 9:17 treatise 73:9,14 73:16 95:17,22 97:17 98:23 101:19 103:2 treatises 73:18 123:21 treatment 24:7 100:12 156:8 triage 153:1,7 153:10,20 154:8,16,21 triaged 147:14 147:21 148:9	trial 124:12 140:20 141:10 165:12,14,17 tried 62:23 trier 144:13 trip 30:7 39:17 48:12 trouble 69:19 Troy 1:6 127:25 169:19 175:7 true 20:16 41:21 41:23 73:10 88:15 100:12 100:12 177:6 179:10 truth 167:18 try 11:1 45:20 82:13,14 104:16 110:6 113:15,18 142:13,17 trying 81:18 Tupelo 2:23 3:3 two 13:15,21 25:9 26:5 27:13 42:15,16 54:19 55:20 57:14,15 65:9 68:4 94:22 106:8 109:16 119:24 120:5 120:17 129:15 130:4,6 137:9 147:1 151:1 156:16 161:3 175:16 TYLER 1:13 2:19 type 32:12 37:7 43:20 44:5,18 45:8 46:4,19 47:24 48:17,24 54:6 71:10 77:3 78:3,17	85:11 86:19 115:16 137:22 146:25 151:22 168:1 types 18:4 44:6 44:22 46:9 47:11 48:18,21 <hr/> U UCLA 173:9 176:6,10 Uh-huh 176:5 UK 65:25 66:1,2 69:12 ultimate 22:20 34:10 170:25 ultimately 150:20 151:13 151:15 174:10 ultimatum 158:11 unable 40:25 66:17 unacceptable 30:25 uncertain 76:24 unclear 93:24 uncomfortable 130:8 uncommon 31:11 158:19 undercover 134:20 undergoing 101:1 underlying 19:25 43:4 48:23 52:15 93:6 159:14 171:2 understand 7:13 7:17 11:7 18:18 20:19 26:18 27:12	29:25 30:5,23 32:8 37:5,6 39:21 41:4,6 41:11,16 42:3 42:11 44:3 57:5 59:6 60:21 61:6,25 62:2,3 77:22 86:24 89:7 90:1 98:10 101:2,3,12 108:20 112:16 112:17 122:21 139:3 141:21 142:2,8,11 145:8 148:4,6 148:24 152:23 154:6 156:1 158:11 163:15 163:24 164:2,4 170:19 171:9 171:13 176:1 understanding 19:3 22:16 30:20,21 35:7 49:22,24,25 50:2,5 59:8,25 60:23 74:4 115:23 147:24 148:16 149:21 160:7,11,18 165:13 understands 91:10 138:11 understood 122:12 153:18 undetermined 57:20 unequivocally 100:19 unexpected 34:24 35:1,4 48:2,8 169:17 unimpaired	67:3 uninvited 30:24 32:12 43:16 unit 145:19 146:6 United 1:1 65:13 65:14 University 65:16 65:25 111:19 172:12,14,17 172:21 unknown 125:1 unquote 169:6 unreasonable 43:22 unresponsive 82:24 untoward 33:25 unwise 129:9 UPCHURCH 3:2,2 upper 145:23 upward 85:6 urea 53:5 USA 157:1,2,3 usage 44:23,25 use 4:23 21:6 23:13 31:5 32:13 36:20 43:5 53:5,14 54:15 55:9 56:5 59:5 70:2 92:5,6,16 124:11 138:9 146:12 151:22 152:25 161:18 165:8 169:17 users 107:7 uses 18:4 usually 131:11 138:10 140:2 169:12 uttering 30:9
---	--	---	---	--

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 36

V	110:10 117:3	wasn't 10:24	website 70:11	wife 131:14
vacuum 174:14	117:25 123:13	40:2,3 89:7,15	72:2	WILLIAM 1:15
value 41:6	123:14 126:24	112:24,25	Wecht 12:5,12	2:20
variability 22:17	Vilke's 26:9 29:2	113:4 114:3	12:18 13:10	willing 119:8
various 117:24	94:20	136:22 137:18	14:8,18 20:17	157:20,22
varying 83:18	violent 58:9,14	138:1 140:16	20:20 49:5,9	Wisconsin 3:19
vast 140:3	58:15 88:14	145:7	115:13,20	wish 60:1 82:14
ventilation	violently 41:1	way 15:10,12	158:6	97:25 102:4
80:11 85:25	Virginia 172:21	21:22 32:16	Wecht's 12:20	wit 2:1 7:4
ventilatory	visitor 163:16,20	41:17 53:13	13:1 99:13	withdrawal
98:13,15 99:5	Vitae 26:5 117:5	57:1 66:8,10	week 7:20	140:17
99:19 100:1	vital 66:12,19,25	85:4 107:19	weekends 131:2	witness 4:4 7:2
verb 27:7	88:24	113:24 142:15	weeks 20:4	7:14 15:23
verbal 36:17	vitreous 53:4,5	158:17	weight 49:20	26:19,22 35:20
121:24	53:11,16	ways 44:12	50:24,25 92:25	36:25 37:9
verbalized 133:4	vocal 51:24	48:24	93:1 99:18,25	42:11 51:19
133:6 134:8	Vol 64:15 65:1	we'll 47:15,17	102:2 149:14	63:14,18,21,24
verbose 21:7,23	109:9	65:20,20 69:21	150:7,8 165:1	64:10,12,16
147:18	volume 4:21	72:2 95:5	weightlifting	79:7 84:16,18
verifies 34:15	66:21 69:4	106:5 125:4,17	47:7	84:21 109:2,5
verify 36:11	vs 1:11	142:14	weights 79:10	109:8 114:20
Vern 23:16	W	we're 7:18 11:15	welcome 68:2	118:25 119:3
version 34:17	wait 90:3 93:21	28:14 47:16	82:20	119:19 120:10
44:9	107:25 149:17	59:6 78:25	Weld 131:3	120:13 128:14
versus 36:24	173:20	79:2 84:11	well-known 22:9	136:19 137:14
victim 85:12	waiting 141:14	105:21 118:9	went 9:6 33:3,12	139:9 142:12
victims 173:13	walked 30:23	137:11 176:17	64:20 109:17	142:20 143:1
video 29:9	wall 45:2 85:5	176:17,20	132:15,19	154:24 155:18
videos 30:21	wanna 83:9	we've 16:1 17:20	133:23 174:19	155:21 164:10
156:16,17,18	116:8 118:3	25:7 36:16	weren't 108:11	177:1 179:7,19
videotape 39:23	119:3 141:16	55:12 73:10	124:6 135:1	Witness' 4:9
145:5	141:20 170:7	78:25 80:7,23	whack 172:10	witnessed
videotapes	175:18	81:22 93:8	whatsoever	173:12
78:23,24	want 76:10,12	96:20 105:6	59:10 62:3	witnesses 35:18
Vienna 172:12	76:14 77:21	107:11 110:10	139:3 159:15	WITTE 1:14
172:15,16,18	81:20 108:19	110:23 116:24	179:14	woman 133:8,16
172:21 176:2	129:6 130:23	117:6 118:16	wheeled 164:21	women 132:8,9
view 103:2	146:19 155:10	120:20 121:6	who've 111:5	won 133:1
viewed 164:20	wanted 41:18	123:23 124:20	wide-mouthed	word 32:25
Vilke 5:14,17	52:1 76:16	126:4 127:9	16:17	43:19,20 44:17
26:5,6,7,13	132:1,2	139:15	widely 107:12	44:18 54:15
87:17 94:13	wants 141:7	WEATHERF...	widespread	92:7
97:23 106:7	warning 167:22	1:16 2:20	39:11	word-of-mouth
109:13,24		WEBER 3:18	widow 159:5	122:24

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 37

worded 106:22 107:22 108:17	X 4:1,14 5:1 6:1	108 5:14	76:11 79:9	2007 99:5
words 61:17 120:25	Y	109 5:17	17 5:23 168:24	2008 65:1 161:4
work 26:25 111:25 118:25	yeah 37:4 39:3 54:17 62:11	11 4:21 5:13 108:23 109:6	169:3	2012 5:13,16
119:1,9 120:12	71:15 90:4	109:12 110:11	1700s 172:16	109:5
120:16 131:2,7	108:15 121:11	117:4 176:22	176 6:6,9	2013 101:25
140:23,23,24	142:23 157:3	11:57 106:3	177/178 4:9	161:4
141:1	158:10 171:13	116 5:18	179 4:10	2015 25:14
worked 9:11,12 11:17,19 91:15	172:9 174:3	1164 4:21	18 6:5 25:14	159:9 162:4
115:17 131:1	year 119:9,14,25 120:5,18	1171 4:21	156:9 159:9	165:6
134:16 138:24	159:21 165:14	118 5:19	162:4 165:6	2016 12:12
140:19 160:2	years 90:2 109:25 115:18	11th 5:22 125:13	176:4,23	156:9
working 131:21 141:8	119:14,25	12 5:15 109:11	18-month	2017 2:2 26:12
works 144:2	124:2 139:10	109:12 110:11	131:15	29:2 117:8
worsened 151:9	160:3	117:4 176:23	19 5:13 6:7	177:4,19
would've 21:9 21:17 36:6,6	yell 52:2,3	12:10 106:4	109:5 176:7,23	179:20
41:14 43:21	yelling 51:21	125 5:21,22	1992 173:10	20th 179:19
45:25	yield 141:15	1250 2:15	1997 6:6 97:23	2108 25:14
wouldn't 21:2 38:13 47:9	you-all 117:1	126 5:9 88:11	1998 4:21 69:6	220 92:16
86:2 88:4 91:4	younger 35:22	90:24	173:10	23 67:8
116:19 129:18	Z	13 5:18 116:9,11	19th 2:1 177:4	23-percent 67:5
wounds 145:12 145:14 146:5	Zealand 57:17 131:6,8 132:20	132 85:20,21	2	23.8 67:1
wrapped 133:18	135:11	138 64:14 65:1	2 4:3,19 25:13	241 3:19
wrist 85:13	0	14 5:19 25:11	64:15 65:1,20	250 93:1
wrists 50:4	1	118:3 176:23	68:1 73:20	2500 121:22,25
write 69:13 117:19,19,20	1 4:17 15:15	140 68:1	74:21,25	122:4,6
171:17,18	16:1 17:20	141 3:3	106:23 118:10	26 12:9 14:13
writes 79:10	125:14 176:22	142 2:6	150:12 160:6	27th 70:25
writing 134:8 159:7	1-10 1:17	143 4:6	176:22	28 25:14
written 90:4 94:23 170:4	1.6 132:16	15 4:18 5:20	2-1-0-8 25:14	28th 26:12
wrong 154:9	1:43 155:12	21:24 22:4,7	2,117 5:22	3
wrote 13:3	1:50 155:12	125:5 176:23	125:13	3 4:21 69:22
X	10 5:12 12:11	15-275 4:18	2:30 176:21	73:17 85:9
	22:7 105:21	12:18	20 115:18 160:3	145:21 176:22
	10:02 47:18	150 141:6	173:10	3/22/2021
	10:12 47:19	150-an-hour	20,000 139:16	179:24
	104 92:21	121:21 122:3,8	200 2:15	3:17-cv-060 1:4
	105 2:22 5:12	141:1,3,7,9	2000 70:25 95:4	30 84:9 85:3
		155 4:7	2001 6:7	86:12 90:2
		16 5:22 125:17	2002 94:23	300 3:19
		176:23	2004 9:6 136:17	309 5:6,11 82:17
		166 4:8	2005 5:6 9:6	84:16,18 94:25
		168 5:5,24	11:21 43:7	311 5:21 124:23
		169 5:5 75:12,14	82:18	124:25 125:6

1.877.385.4268

970.385.4268

MICHAEL F. ARNALL, MD

Page 38

316 4:21 69:4	2:23	162:20 165:22		
330 3:9	69 4:21	169:23		
350 93:2		901.525.6278		
38103 2:15 3:15	7	2:16		
38119 3:9	7 4:5 5:7 40:18	901.526.0606		
38804 2:23 3:3	85:17 167:8,11	3:10		
3rd 94:24	176:22	90s 94:22		
4	7-11 5:13 109:5	919 2:6		
4 4:22 68:5 72:3	7/18/2015 25:14	95 5:11 120:12		
73:17 79:1	7/27/2000 4:23	98.2 93:5		
106:24 145:18	72 4:23	98.6 93:6		
146:4,4 176:22	731.423.2414			
4,000 91:20	3:16			
4.5.4.1.4 95:1	79 5:5			
400 28:17	8			
400-gram 93:1	8 5:9 40:15			
414.224.7697	90:18 106:23			
3:20	176:22			
43 5:16 109:9	8.7 25:18			
48 64:15 65:1	8:33 147:13			
4th 5:7 84:25	153:1,6,20			
5	8:52 2:9			
5 5:4,12,16	80 108:5			
12:12 68:5	81301 2:7,8			
79:4,5 104:16	83 5:6			
109:9 176:22	832 5:8 85:1,22			
50 3:15 76:25	85:22			
77:5,7,16 78:4	85 5:8			
78:18 79:17	897 109:10			
500 120:1,3	897-905 5:16			
501 2:8	9			
53202 3:19	9 5:10 95:5			
5400 3:9	176:22			
6	9:27 40:20			
6 5:6 40:18	90 5:9 34:6			
83:10 99:13	41:13 42:17			
122:6 176:22	43:2 74:14			
610 3:15	75:6 76:23			
65 4:20	77:4 80:5 86:8			
662.260.6953	90:8 100:13			
3:4	108:4 113:20			
662.842.3871	114:11 116:17			
	154:10,16			